

CAB Labelprinter EOS

Labelprinter EOS1 - EOS4



EOS1 for label rolls up to 155 mm Ø.

EOS4 for label rolls up to 210 mm Ø.

The new thermal printer – a modern, cost-effective solution for printing labels in production, logistics and retail.

The key feature of the new EOS is that it is the first label printer to be fitted with a touchscreen as standard. This makes it easy to call up existing labels, add data and print them off – all without being connected to a PC.

Complete labels can be saved to a USB memory stick or the internal memory of the EOS printer.

EOS1 and EOS4 differ in terms of their size. The larger EOS4 can accommodate label rolls up to 8" in diameter. All labels are centered automatically in the printer.

Both units are available with 203 or 300 dpi resolution. What's more, wear parts can be replaced in a matter of seconds – usually without the need for any tools.

Product type overview

One concept – two sizes

Type B with tear-off plate

30 mm of material is needed for tear-off.



Type C with cutter

Labels or continuous material can be cut at a height of 10 mm.



Type P with dispensing function

(only EOS4). The label height at dispensing is 20 - 200 mm.



Technical detail

- The new EOS series combines all functions of a solid industrial printer with highest ease of operation.
- Two additional USB interfaces are located below the LCD display to connect a standard PC keyboard, a scanner or an USB memory stick.
- With the high-tech electronics, the intelligent print head and efficient power supply the EOS is particularly energy efficient and environmentally friendly.
- The big, clearly laid out touchscreen LCD display is easy to operate.
- In stand-alone mode the label data is entered via keyboard directly into the printer. A PC is not necessary any more.
- The housing of the EOS devices are made of high-class ABS synthetic with translucent cover and are perfectly harmonized in their form and function.
- The BBK label software LabelsPlatform supports all printer functions optimally.



1 Touchscreen – LCD display

Clearly designed for highest ease of use.

2 Two additional USB interfaces

For the connection of a keyboard or a memory stick, in stand-alone mode or to test the service key.

3 Roll holder

The label roll is inserted and centered automatically when closing the cover.

4 Ribbon retainer

The stop is adjustable to the foil width.

5 Gap or reflective sensor

The sensor position is adjustable by the red knob via a spindle. The set position is displayed with a LED. Color and luminance sensor on request.

6 Label guide

The guides are adjusted to the material width with the green knob.

7 Printhead 203 or 300 dpi

The printhead can be easily removed manually for cleaning or replacement.

8 Drive roller

It can be removed for cleaning or replacement with a click without a tool. When printing very narrow labels, we recommend using narrow drive rollers with a width of 25 or 50 mm to avoid the possibility of the printhead rubbing on the drive roller. This ensures a better print image and lengthens the life of the printhead.

Technical data

■ Standard □ Option

Label printer		EOS1	EOS4
Printhead	Printing method	Thermal transfer/Thermal direct	
	Print resolution dpi	203 / 300	
	Print speed mm/s	30, 40, 50, 75, 100, 125	
	Print speed mm/s	108 / 105,6	
Material¹⁾	Continuous material on rolls / fanfolded	Paper, cardboard, textiles, plastics, PET, PE, PP, PVC, PU, acrylate, PI	
	Thickness mm	0,055 - 0,7	
	Width: Labels mm	single lan 10 - 116, or multi lan 5 - 116	
	Carrierpaper / Continuous material mm	25 - 120 / 6 - 120	
	Height Labels / Continuous material mm	6 - 1000 / 10 - 1000	
	Media roll: External diameter up to mm	155 and 152,4	210 and 203,2
	Core diameter mm	38-40 and 76	
Ribbon	Winding direction	outside or inside	
	Ink	outside or inside	
	Roll diameter up to mm	72	
	Core diameter mm	25,4	
	Ribbon length variable up to m	360	
	Width mm	50 - 114	
Printer dim.	Höhe x Tiefe x Breite mm	189 x 322 x 253	245 x 412 x 264
	Weight kg	4	5
Label sensor	Gap sensor	for leading edge of the label or punching marks and end of material	
	Reflective sensor from the bottom	for printing marks	
	Distance from the center to the left mm	0 - 58	
Electronics	Processor high speed 32 Bit clock rate MHz	400	
	RAM MB	64	
	Memory IFFS MB Flash	16	
	Battery buffer for	Real-time clock, printout of time and date, data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	RS232C 1.200 up to 230.400 Baud/8Bit	□	
	USB 2.0 full speed slave for PC connection	■	
	Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	■	
	Nano Bluetooth USB Adapter V2.1	□	
	WLAN USB Stick 54 Mbps	□	
	Nano Bluetooth USB Adapter V2.1	■	
	2 x USB Master for	keyboard, scanner, memory stick or service key	
	2 x USB Master for	keyboard, scanner, memory stick or service key	
Operating data	Power supply	100 - 240 V ~ 50 / 60 Hz, PFC	
	Energy consumption	Power saving mode 1,8 W / typic 45 W / max. 100 W	
	Temperature / Humidity: Operation	+5 - 40°C / 10 - 85% not condensing	
	Storage	+0 - 60°C / 20 - 80% not condensing	
	Transport	-25 - 60°C / 20 - 80% not condensing	
Operation panel	Approvals	CE, FCC class A, CB, CCC, UL	
	Touchscreen display	160 x 255 pixels with backlight	
	Diagonal measurement mm	96	
	Operating functions	Pause, Feed, Cancel, Menu, Enter, numeric pad	
Settings		Time, Date, Digital or analog clock 25 language settings, System settings Print parameters, Interfaces, Security	

¹⁾ All material details are approximate values. Small labels, very thin, narrow, thick or stiff materials as well as labels with strong adhesives must be tested.

CAB Label Printer

Label printer A2+ A4+ with dispense function



A2+ The Small Sized.



A4+ The All-rounder.

The A+ series is ideal for solving practically any marking task. With a broad range of peripherals, accessories and software, our printers can be adapted to meet any requirements. We offer various sensors and adapters for label dispensing solutions.

During development, we focused first and foremost on simple and convenient operation coupled with high reliability. The printing units and housing are made of high-quality materials and are perfectly matched.

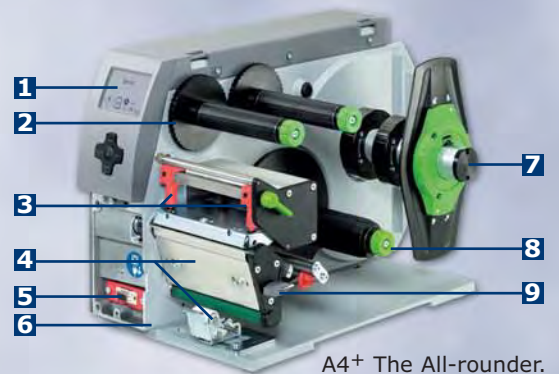
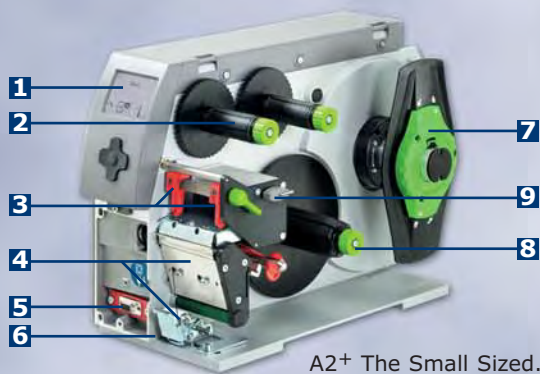
The A+ series is always a safe option, because it offers almost unlimited possibilities, be it for stand-alone operation in conjunction with PC/label software or for network operation linked with SAP. There's a good reason why our A+ label printer has a reputation as an all-rounder!

Technical data

■ Standard □ Option

Label printer		A2+	A4+
Printhead	Printing method	Thermal transfer/Thermal direct	
	Print resolution dpi	300 / 600	203 / 300 / 600
	Print speed up to mm/s	150 / 100	250 / 250 / 100
	Print width up to mm	54,2 / 57	104 / 105,6 / 105,6
Material	External diameter up to mm	205	205
	Label width mm	4 – 63	20 – 116
	Label height from mm	4 / 4	4 / 4 / 4
	Label height up to mm	5000 / 2000	5000 / 4000 / 1000
Ribbon	Color page	outside or inside	
	Variable length up to m	500	
Printer dimensions	Height x Depth mm	274 x 446	
	Width mm	190	242
Electronics	Processor speed MHz	266	
	(RAM) MB	64	
	Memory IFFS MB Flash	8	
	Slot for CF card type I	■	
	Slot for wireless LAN card	■	
	Battery buffer for	real-time clock, printout of time and date Data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	Centronics bidirectional in accordance with IEEE 1284	□	
	RS232 C	■	
	USB 2.0 High Speed Slave für PC	■	
	Ethernet 10/100 Base T	■	
	RS422, RS485	□	
	Peripheral connection	■	
	WLAN card 802.11 b/g	□	
	2x USB masters for	external operation panel, keyboard, scanner, service key	

Technical details



- 1 Big graphic display 2 Ribbon holder 3 Straightforward adjustment 4 Peel-off option 5 Peripheral connection 6 Solid metal housing 7 Roll holder 8 Internal rewinder 9 One tool for all maintenance tasks

CAB Label Printer

Label printer A6+ A8+ with dispense function



A6+ The Broad.



A8+ The Extra Broad.

The wide variety of the A+ series matches its versatility in operation. The A+ label printer is available in print widths ranging from 54.2 mm to 216 mm. This enables the production of extremely narrow and very wide labels with an excellent print resolution of between 200 and 600 dpi.

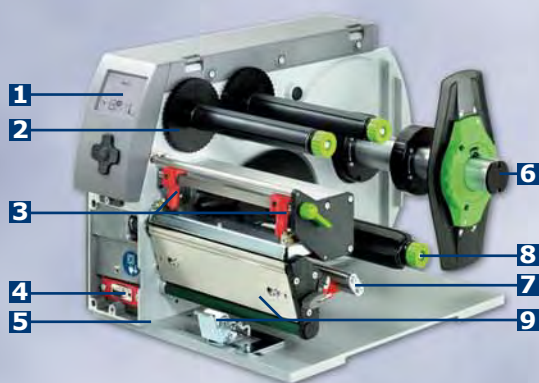
The print speed ranges from 100 to 250 mm/s depending on the model you choose, ensuring faster throughput times and thus lower process costs!

Technical data

■ Standard □ Option

Label printer		A6+	A8+
Printhead	Printing method	Thermal transfer/Thermal direct	
	Print resolution dpi	203 / 300	300
	Print speed up to mm/s	200 / 200	150
	Print width up to mm	168 / 162,6	216
Material	External diameter up to mm	205	205
	Label width mm	50 – 176	50 – 220
	Label height from mm	6 / 6	10
	Label height up to mm	4000 / 3000	2000
Ribbon	Color page	outside or inside	
	Variable length up to m	500	360
Printer dimensions	Height x Depth mm	274 x 446	
	Width mm	302	352
Electronics	Processor speed MHz	266	
	(RAM) MB	64	
	Printer memory IFFS MB Flash	8	
	Slot for CF card type I	■	
	Slot for wireless LAN card	■	
	Battery buffer for	real-time clock, printout of time and date Data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	Centronics bidirektional nach IEEE 1284	□	
	RS232 C	■	
	USB 2.0 High Speed Slave für PC	■	
	Ethernet 10/100 Base T	■	
	RS422, RS485	□	
	Peripheral connection	■	
	WLAN card 802.11 b/g	□	
	2x USB masters for	external operation panel, keyboard, scanner, service key	

Technical details



A6+ The Broad.



A8+ Der Extra Broad.

1 Big graphic display 2 Ribbon holder 3 Straightforward adjustment 4 Peripheral connection 5 Solid metal housing 6 Roll holder 7 one tool for all maintenance tasks 8 Internal rewinder 9 Peel-off option

CAB Label Printer

Label printer A4+M with centered material guide.



A4+M With centered material guide.

The A4+M does not require any printhead adjustments for different material widths. It can also be used for printing very narrow or thick endless materials.

The gap height for flat tubes and synthetic straps is 4 mm. The optimum print speed for materials that are difficult to imprint is 30-125 mm/s. Operation and software are compatible with the A+ series.

Technical data

■ Standard □ Option

Label printer		A4+M	
Printhead	Printing method	Thermal/Thermal transfer	
	Print resolution dpi	300	600
	Print speed up to mm/s	125	100
	Print width up to mm	105,6	105,6
Material	External diameter up to mm	205	
	Label width mm	4 - 106	
	Label height mm	5 - 4000	5 - 1000
Ribbon	Variable length up to m	500	
Printer dimensions	Height x Depth mm	274 x 446	
	Width mm	242	
Electronics	Processor speed MHz	266	
	(RAM) MB	64	
	Memory IFFS MB Flash	8	
	Slot for CF card type I	■	
	Slot for wireless LAN card	■	
	Battery buffer for	real-time clock, printout of time and date Data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	Centronics bidirectional in accordance with IEEE 1284	□	
	RS232 C	■	
	USB 2.0 High Speed Slave for PC	■	
	Ethernet 10/100 Base T	■	
	RS422, RS485	□	
	Peripheral connection	■	
	WLAN card 802.11 b/g	□	
	2x USB masters for	external operation panel, keyboard, scanner, service key	

Technical details



A4+M With centered material guide.

- 1 Big graphic display 2 Ribbon holder 3 Straightforward adjustment 4 Peel-off option 5 Peripheral connection
6 Solid metal housing 7 Roll holder 8 One tool for all maintenance tasks

CAB Label Printer

Label printer MACH4



MACH4 The Business Class.

MACH4 breaks new grounds. High-quality, robust synthetics provide a new look that delivers reliable technology. It offers top performance and first-rate print quality.

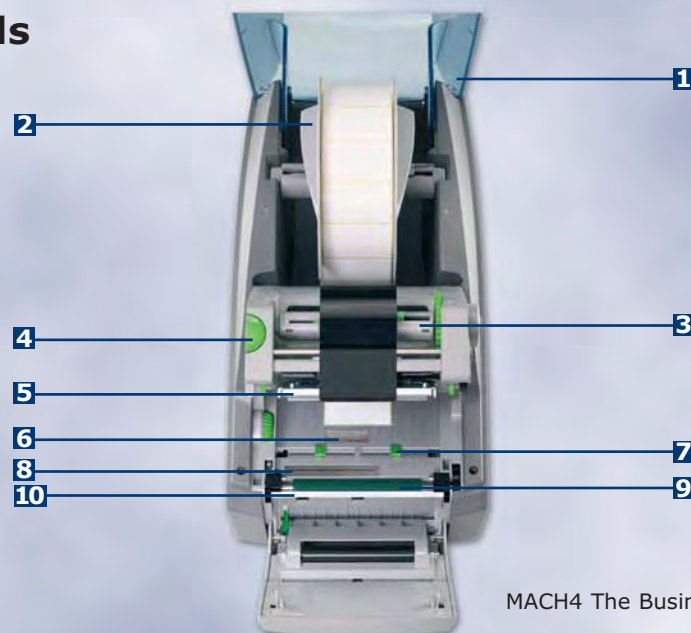
Our main focus during the development of this printer was easy handling and a high degree of reliability: the centered material feed, for example, eliminates the need for adjustments when the material is changed.

Technical data

■ Standard □ Option

Label printer		MACH4		
Printhead	Printing method	Thermal/Thermal transfer		
	Print resolution dpi	203	300	600
	Print speed up to mm/s	200	200	100
	Print width up to mm	104	105,6	105,6
Material	External diameter up to mm	205		
	Label width mm	6 - 116		
	Label height mm	5 - 4500		
Ribbon	Color page	outside or inside		
	Variable length up to m	360		
Printer dim.	Height x Depth x Width mm	312 x 435 x 240		
Electronics	Processor speed MHz	266		
	(RAM) MB	64		
	Printer memory IFFS MB Flash	8		
	Slot for CF card type I	■		
	Slot for wireless LAN card	■		
	Battery buffer for	real-time clock, printout of time and date Data storage on shut-down		
	Warning signal	Acoustic signal in case of error		
Interfaces	Centronics bidirectional in accordance with IEEE 1284	□		
	RS232 C	■		
	USB 2.0 High Speed Slave for PC	■		
	Ethernet 10/100 Base T	■		
	WLAN card 802.11 b/g	□		
	2x USB masters for	external operation panel, keyboard, scanner, service key		

Technical details



MACH4 The Business Class.

1 Cover with large window 2 Media hub 3 Ribbon retainer 4 Print mechanism 5 Printing with 203, 300 or 600 dpi 6 Gap sensor 7 Label guide 8 Reflex sensor 9 Drive roller 10 Peel-off plate

CAB Label Printer

Label printer PX4/PX6



PX4/PX6 The Executive Class.

Printing and labeling in every position and in every direction – printers in the PX series can be integrated in all existing labeling systems. The models work in every mounting position.

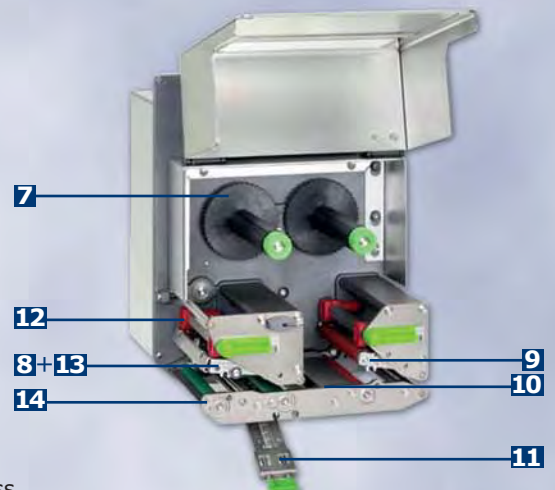
With their consistently robust design, they can satisfy every industrial requirement and are absolutely reliable. The devices are easy to handle and all wear parts can be replaced quickly and easily.

Technical data

■ Standard □ Option

Label printer		PX4	PX6
Printhead	Printing method	Thermal transfer/Thermal direct	
	Print resolution dpi	203 / 300 / 600	203 / 300
	Print speed up to mm/s	300 / 250 / 100	200 / 200
	Print width up to mm	104 / 105,6 / 105,6	168 / 162,5
Material	Label width mm	10 - 116	50 - 176
	Label height mm	6-5000 / 6-4000 / 6-1000	12-4000 / 12-3000
Ribbon	Variable length up to m	600	
Printer dimensions	Height x Depth mm	300 x 333	300 x 393
	Width mm	245	
Electronics	Processor speed MHz	266	
	(RAM) MB	64	
	Memory IFFS MB Flash	8	
	Slot for CF card type I	■	
	Slot for wireless LAN card	■	
	Battery buffer for	real-time clock, printout of time and date Data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	Centronics bidirectional in accordance with IEEE 1284	□	
	RS232 C	■	
	USB 2.0 High Speed Slave for PC	■	
	Ethernet 10/100 Base T	■	
	WLAN card 802.11 b/g	□	
	2x USB masters for	external operation panel, keyboard, scanner, service key	

Technical details



PX4/PX6 The Executive Class.

- 1 Big graphic display 2 Navigator pad 3 CF memory card 4 USB slot 5 Power switch 6 Solid metal cover
7 Ribbon rewinder and unwinder 8 Ribbon saver 9 Back-feed 10 Label sensor 11 Simple material replacement
12 Adjustment of the print layout 13 Fast printhead exchange 14 Removing the print roller

CAB Label Printer XC

XC4 - XC6 for two-color printing



New opportunities in the labelling sector emerge with our new XC-series – two successively arranged thermal transfer printing units permit simultaneous printing of two colors in one document. The first printing unit is additionally equipped with a ribbon saver. The XC4 and XC6 comply with all requirements of the new classification and labelling obligations for chemicals according to GHS.

The new XC series has a solid metal cover made of dye-cast aluminium and are applicable for big media rolls up to 300mm diameter.

Technical data

■ Standard □ Option

Label printer		XC4	XC6
Printhead	Printing method	Thermal transfer	
	Print resolution dpi	300	300
	Print speed up to mm / s	30, 40, 50, 75, 100, 125	30, 40, 50, 75, 100, 125
	Print width up to mm	105,6	162,6
Material	Labels, continuous rolls or fan-folded	Paper, cardboard, textiles; textiles PET, PE, PP, PVC, PU, Acrylat, PI	
	Thickness mm / weight g / m ²	0,05 – 0,8 / 60 – 180	
	Height: Etiketten mm	20 – 116	50 – 176
	Of liner or continuous material mm	25 – 120	50 – 180
	Label height ¹⁾ mm	20 – 2000	20 – 1500
	Media roll: Total diameter up to mm	300	
	Core diameter mm	76	
Ribbon	Winding direction	Outside or inside	
	Ink	Outside or inside	
	Roll diameter up to mm	72	
	Core diameter mm	25,4	
	Ribbon length variable up to m	360	
	Width ²⁾ up to mm	25 – 114	55 – 165
Dimensions	Saver printhead 1	■	
	Height x Depth x Width mm	395 x 554 x 248	395 x 554 x 358
	Weight kg	22	24
Label sensor	Gap sensor	For leading edge of the label or punching marks and end of material	
	Reflective sensor from the bottom	For printing marks	
	Distance to leading edge mm	5 – 53	
Electronics	Processor High Speed 32Bit ColdFire/clockrate MHz	266	
	RAM MB	64	
	Memory IFFS MB Flash	8	
	Slot for CompactFlash Type I memory card	■	
	Slot for wireless LAN card	■	
	Battery buffer for	Real-time clock, printout of time and date Data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	USB 2.0 High Speed Slave for PC-connection	■	
	Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	■	
	Peripheral connection	■	
	WLAN card 802.11 b/g WEP / WPA PSK (TKIP)	□	
	2 x USB master for	For extern. operation panel, keyb., scanner, serv. key, USB flash drive	
Operating data	Power supply	100 – 240 V ~ 50 / 60 Hz, PFC	
	Power consumption	max. 300 W	
	Temperature / Humidity: Operation	+5 – 40°C / 10 – 85% not condensing	
	Storage	+0 – 60°C / 20 – 85% not condensing	
	Transport	–25 – 60°C / 20 – 85% not condensing	
Operation panel	Approvals	CE, in preparation FCC class A, CB, CCC, UL	
	Buttons/LED display	Pause, Feed, Cancel, Menu, Enter, 4 x Cursor	
	LCD graphic display	Width 60mm, height 40mm, text 4 lines, ca. 20 characters per line	
Settings		Time, date, digital or analog clock 25 language settings System settings, print parameters, interfaces, security	

¹⁾ Limitations may apply to small labels, thin materials or strong adhesives.

Critical materials or applications must be tested and approved.

²⁾ The ribbon should be roughly the same width as the label in order to avoid folding.

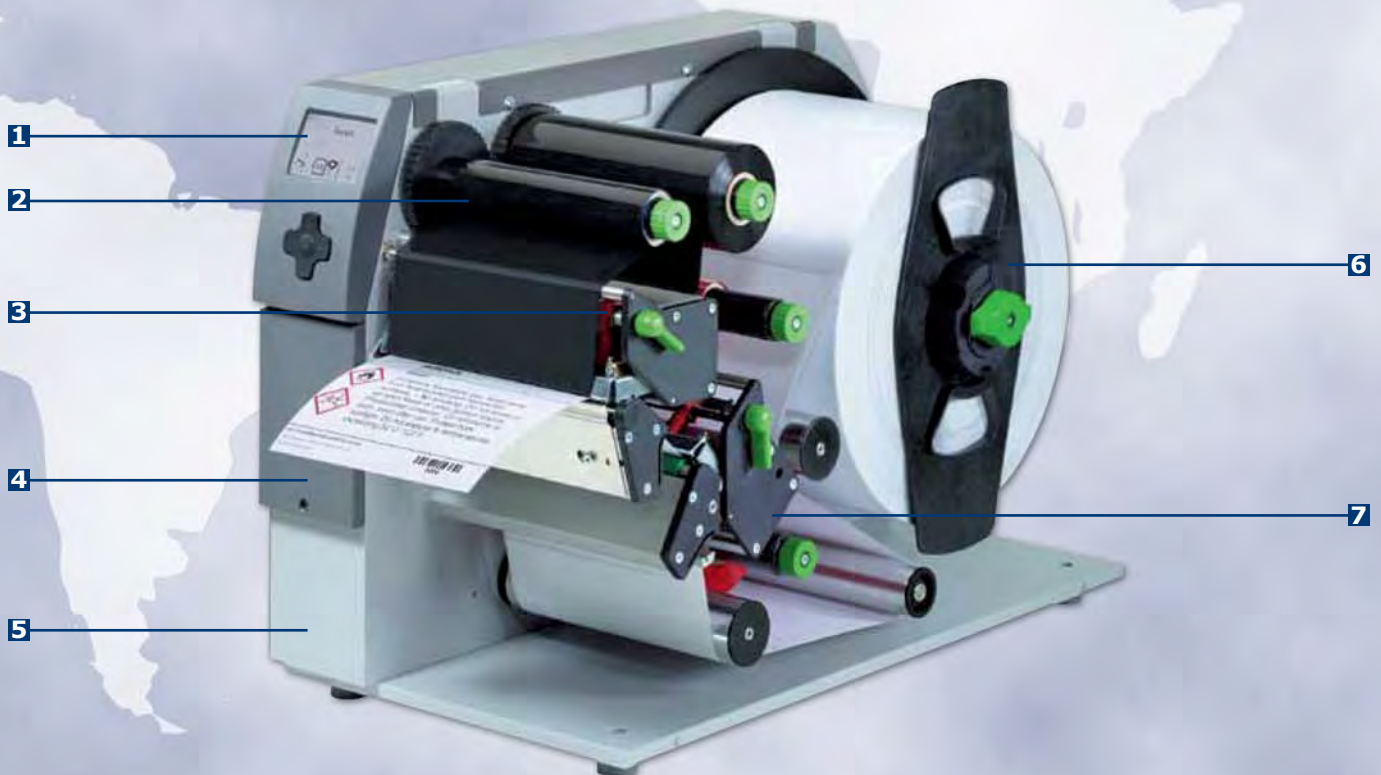
■ Standard □ Option ○ Authorized distribution by resellers

Label printer		XC4 und XC6	
Monitoring	Stop printing if:	End of ribbon, End of labels, Printhead open	
	On the display	Data reception Used memory,Clock Input buffer,WLAN field intensity,Temp. of printhead, Date sheet,Remaining quantity of ribbon,Ethernet status,Access to mem. card,abc Debug	
Test routines	System diagnosis	When switched on, incl. printhead testing	
	Short status, status print	Font list, device list, WLAN status, profile of label, test grid, monitor mode, PPP status	
	Status reports	Extensive status printout with information about settings, e.g. print length counter, runtime counter, etc. Request of machine status via software command. Detailed status messages on the display, e.g. network error – no link, barcode error, etc.	
Fonts	Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Thai and Chinese (simplified Chinese) available as options.(simplified Chinese) Optional Thai	
	Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R. All West and East European Latin, Cyrillic, Greek, Hebrew and Arabic characters are supported. Thai and Chinese available as options	
	Bitmap fonts	Size of width and height 1 – 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°	
	Vektor-/TrueType-fonts	Size of width and height 0.9 – 128 mm Variable zoom, Orientation 360° in steps of 1°	
	Font formats	Bold, italic, underlined, outline, negative, gray, vertical, depending on character fonts	
	Font width	Variable	
Graphics	Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading	
	Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
Barcodes	Linear barcodes	Code 39, Code 93	Interleaved 2 / 5
		Code 39 Full ASCII	Ident- and lead code of Deutsche Post AG
		Code 128 A, B, C	Codabar
EAN 8, 13		JAN 8, 13	
EAN / UCC 128		MSI	
EAN / UPC Appendix 2		Plessey	
EAN / UPC Appendix 5		Postnet	
FIM		RSS 14	
HIBC	UPC A, E, E0		
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar		
	All codesvariable in height,module width and ratio.Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and start/stop code, depending on code type.		
Software	Programming	J-Script direct programming	■
		abc-Basic Compiler	■
		Database Connector	□
	System diagnosis / administration	Printer monitoring	■
		Network Manager	□
Label software	cablabel R2+	■	
Windows driver certified	Labels Platform 3, Codesoft, NiceLabel, Easylabel	○ □	
	Bartender, Label Matrix, Labelview	○	
Stand-alone operation	32 / 64 bit for: Windows 2000, Server 2003, Windows XP, Server 2008, Windows Vista, Server 2008 R2, Windows 7	■	

Technical details

For two-color printing

- Two inline thermal transfer printing units for simultaneous printing of two colors in one document.
- Stable metal housing made of die-cast aluminum.
- The first printing unit is also equipped with a ribbon saver.
- For big media rolls up to 300 mm in diameter.
- The XC series meets the requirements of the new classification and labeling system for chemicals according to GHS.
- Both printing units with ribbon holders, operation panel and electronic system are currently employed in our successful A+ series industrial printers.



1 Big graphic display

White backlight for optimum readability.

2 Ribbon retainer

Three-part tightening axles enable quick and easy ribbon exchange.

3 Straightforward adjustment

The printheads are pressed down with sliding toggles. One is mounted to the left label margin, the other is pushed to the right label margin.

4 Peripheral connection

All additional modules such as the stacker and cutter are easily adjustable. All peripheral devices can

be connected to the printer with two pins and fixed in place with one screw in a matter of seconds.

5 Stable metal housing

Made of die-cast aluminum. All components are mounted on it.

6 Roll holder

The swing lever and integrated brake ensure that the labels are unwound with constant tension.

7 Ribbon saver for printhead 1

Used for labels that are only to be partially printed in secondcolor. In the unprinted area, the printhead is lifted and the ribbon stopped while the label is fed.

CAB Label Printer

Label printer XD4M



XD4M With centred material guide.

With two stacked print mechanisms the XD4M can print both sides of paper, cardboard, textiles, plastics or even flat synthetic tubes at the same time.

It is not necessary to adjust the printhead for different material widths. The printer is especially suitable for printing on narrow and/or thick materials as well as on flat-pressed endless tubes and difficult printable surfaces.

Technical data

■ Standard □ Option

Label printer		XD4M
Printhead	Printing method	Thermal transfer
	Print resolution dpi	300
	Print speed up to mm/s	125
	Print width up to mm	105,6
Material	External diameter up to mm	300
	Width of carrier tape or endless material mm	10 - 110
	Height of carrier tape or endless material up to mm	2000
Ribbon	Variable length up to m	360
Printer dimensions	Height x Depth mm	395 x 554
	Width mm	248
Electronics	Processor speed MHz	266
	(RAM) MB	64
	Memory IFFS MB Flash	8
	Slot for CF card type I	■
	Slot for wireless LAN card	■
	Battery buffer for	real-time clock, printout of time and date Data storage on shut-down
	Warning signal	Acoustic signal in case of error
Interfaces	USB 2.0 High Speed Slave für PC	■
	Ethernet 10/100 Base T	■
	Peripheral connection	■
	WLAN card 802.11 b/g	□
	2x USB masters for	external operation panel, keyboard, scanner, service key

Technical details



XD4M With centred material guide.

- 1 Big graphic display 2 Ribbon holder 3 Straightforward adjustment 4 Material guide 5 Peripheral connection
6 Solid metal housing 7 Roll holder 8 One tool for all maintenance tasks

PM43 PM43c

Mid-Range Industrial Label Printers



PM43/PM43c mid-range industrial printers are ideal for a wide range of applications within the distribution center/warehouse and manufacturing environments.

Ready – Fastest to deploy.

Seamlessly fits any environment.

- Large color multi-lingual tamper proof touch-screen or icon user interface
- No touch configuration capabilities
- Only CCX & WiFi certified fixed printers with standard IPv6 implementation

Reliable – Maximize uptime. Built from 40 years of printing innovations.

3rd generation platform.

- Precision Print for consistent bar code printing with pin point accuracy
- Multilingual Web page loaded on every printer ensure easy device monitoring
- Strong metal structure with metal door that can be locked for media protection

Perform – Increase productivity and process efficiencies. Simple to use.

- Fastest throughput in its class
- Powerful programmable capability with ability to directly connect peripherals
- Most connectivity options in the market

The Intermec PM43 and more compact PM43c mid-range industrial label printers deliver fast, drop-in deployment, advanced connectivity and proven reliability to maximize uptime.

Ready

PM43/PM43c are ready to deliver maximum uptime. Both models are available with either a tamper-proof color touch-screen in 10 languages or a universal icon interface. Reduce your total workforce training and device support needs with immediate notifications via the printer and the elimination of reconfiguration due to UI tampering.

Experience the fastest deployment time in the market with Intermec's innovative 'No-Touch' configuration via an optional embedded RFID chip. This patented capability means PM43/PM43c can be programmed without having to open the printer box or power it up, translating into significant savings for you.

As the industry's only printers available with WiFi- and CCX-Certification with additional BT connectivity, PM43 and PM43c help maintain wireless network integrity. Every printer ships with Ethernet connectivity, as well as with network protocol IPv6, ensuring long-term, enterprise scalability.

Reliable

As the 3rd generation of Intermec industrial printers, the rugged PM43/PM43c incorporate features that increase uptime and reduce maintenance costs. Strong all-metal construction is perfect for harsh industrial environments and the metal media door with innovative latch system ensures media is protected.

Increase efficiencies through the prevention of frequent media adjustments with Precision Print. Now you can print small barcodes, text and images with pinpoint accuracy – every time.

Device monitoring has never been easier. Every PM43/PM43c has a web page loaded in the printer that allows for easy setup, monitoring and configuration through handheld devices like Intermec's hand held computers, tablets or smart phones. Integrated device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment.

Perform

PM43/PM43c are ready to perform. With the Fastest Print Speed in its class of 12ips, you'll gain a clear productivity advantage. PM43/PM43c are the smartest printers around helping to reduce labeling errors and increase process efficiencies. Printer stand-alone applications, developed through the embedded programming language, directly control other devices such as Scanners, Scales, keyboards and other peripherals helping you decrease infrastructure costs and complexity.

With its user-selectable, all-in-one programming languages, PM43/PM43c fit IT infrastructures, deploying with drop-in simplicity to Intermec or mixed printer environments.

PM43/PM43c are co-engineered and tested with Intermec Media Products, ensuring optimized printhead performance when used with genuine Intermec media.

Intermec Lifecycle Services – Delivering Business Continuity

Intermec lifecycle services provide customers and partners with best-in-class support, education, managed and advanced services. For your support plan needs, our Intermec Medallion® Services programs deliver the highest levels of productivity, device reliability, and uptime. The Medallion® Complete support package covers hardware failure, general wear and tear and accidental damage. Find out more about Intermec's lifecycle services solutions at <http://www.intermec.com/services>.

Description

Industrial Mid Range, Direct Thermal and Thermal Transfer label, ticket and tag printer. Also available with RFID.

Physical Characteristics

PM43: LxHxW: 483.54 x 294.61 x 284.2 mm (19.04 x 11.6 x 11.19 in)

Weight: 15.82 kg (34.88 lbs.)

PM43C: LxHxW: 431.84 x 181 x 252.5 mm (17 x 7.13 x 9.94 in)

Weight: 12.5 kg (27.65 lbs.)

PM43C with Dome Door:

LXHXW: 500.22X244.87X252.5 mm (19.04X9.64X9.94 in)

Weight: 12.71Kg (28.02 lbs.)

Print Specifications

Max. Width with 203dpi: 108 mm (4.25 in)

Max. Width with 300 dpi: 106 mm (4.17 in)

Max. Width with 406 dpi: 104 mm (4.09 in)

Max. Length: depending on with 203 dpi – 406 dpi: (1.2 m) 48 in to (4.8 m) 191 in

RFID Standards & Frequencies

18000-6C / EPC Class 1 Generation 2
865-928 MHz radio configured to comply with local UHF RFID regulations including FCC and ETSI. Contact local representative for availability in particular regions.

Print Speed

100 – 300 mm/s (4 – 12 ips) variable (203/300 dpi)

100 – 250 mm/s (4 – 10 ips) variable (406 dpi)

Print Resolution

8 dots/mm (203 dpi)

11.8 dots/mm (300 dpi)

16 dots/mm (406 dpi)

Media

Type: Labels and Tags, Linerless and Lined media

Max/Min Width: 114.3 / 19.05 mm (4.5 / 0.75 in)

Thickness: 3 to 10.4 mil

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Europe/Middle East & Africa Headquarters Office

Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Configuration: Roll-fed or fanfold

Sensing: Gap, notch, black mark, continuous

Label Roll Max Diameter: 212.75 mm (8.375 in)

Label Roll Core: 38-76 mm (1.5-3 in)

Type: Ribbons

Roll Max Diameter: 80 mm (3.15 in), approx. 450m

Core ID: 25.4 mm (1 in)

Type: Wax, mid-range, resin

Genuine Intermec Media: www.intermec.com/media

Interfaces

Standard:

- Ethernet 10/100 Mbps

- RS-232, up to 115.2 kB/s

Supported Serial Protocols:

- Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DSR/DTR, RTS/CTS

- IPL: XON/XOFF, Intermec Std. Protocol

- USB 2.0

- USB Host/Boot (X1 on PM43C, X2 on PM43)

Optional:

- Parallel IEEE 1284

- Industrial Interface (8 digital in/out, 4 analog relays, 1 RS232/422/485 port)

- Dual Serial ports RS-232, RS-422, RS-485 and 20mA Current Loop

- Dual USB Host/Boot

Wireless:

- IEEE 802.11 b/g/n + Bluetooth

- Wi-Fi Certified, CCX (Cisco®) version 4 Certified

- Static WEP (64 bit and 128 bit), Dynamic WEP (TLS, TTLS, PEAP, LEAP, EAP-FAST), WPA (THIP/CCKM Personal and Enterprise, WPA2 (AES-CCMP/CCKM Personal and Enterprise)

- Multiple industrial antenna options for maximized coverage

Supported Protocols:

TCP/IP-suite (TCP, UDP, ICMP, IGMP, etc.), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv1/2c/3, (SMTP.SNMP-MIBII supported – over UDP/IP – private enterprise MIB included)

- Supports IPv4 and IPv6

- No touch configuration capability through imbedded RFID chip

Software

Printer Command Languages:

- IPL

- Fingerprint/Direct Protocol

- ZSim (ZPL)

- DSim (DPL)

- Web Page configuration interface

- XML enabled for SAP® All and Oracle® WMS

Applications / Drivers:

- InterDriver™ Windows printer driver

- Intermec label design and print package

- PrintSet for printer configuration

Development Software:

- Intermec Fingerprint Application Builder™ (IFAB) (RFID libraries included)

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Device Management Support:

- SmartSystems™
- Wavelink Avalanche™

Bar Code Symbolologies

All major 1D and 2D symbolologies are supported.

Standards Supported

UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; AIAG (shipping parts label); OGMARS; POSTNET; HIBC; ISBT 128; GM1724; UPS shipping label; Global Transport Label

Fonts

Monotype font engine

Non-Latin fonts available through WTLE

Graphics

Supports PCX, PNG, GIF and BMP file formats.

Other formats supported with Label Generation Tools.

Memory

Standard: 128MB Flash memory, 128MB SDRAM,

Multi-GB USB memory device (FAT16/FAT32 USB drivers supported)

User Interface

Color touch User Interface

Icon User Interface

User Interface Languages

Color Touch interface and Web Page support
English, Russian, German, French, Portuguese, Spanish, Italian, Korean, Simplified and Traditional Chinese

Power Supply

AC Voltage: 100 to 240 VAC, 45 to 65Hz

PFC Regulation: IEC320/C14

Power Consumption: Standby 9W; Peak 300W

Operating Environment

Ambient Operating Temperature:

+5°C to +40°C (+41°F to +104°F)

Storage Temperature: -20°C to +70°C (-4°F to +152°F)

Humidity: 20 to 80% non-condensing

Regulatory Approvals

RoHS compliant, CE (EN55022 Class A), FCC Class A, UL/cUL, C-Tick, Energy STAR certified, D Mark and CCC

Options and Accessories

RFID UHF, integral self-strip unit with liner takeup, Label Taken Sensor (LTS), Full Batch Label/Liner Rewinder, parallel interface board, additional serial interface boards*, industrial interface boards*, real time clock, media supply hub, Collapsible Ribbon core cutter, Media low sensor, Linerless

*Not applicable when using IPL firmware



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In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.



Product profile

PC_{23d} PC_{43d} PC_{43t}

Desktop Printers



The PC23/43 family is a purpose-built platform with innovative design guided from customer input. Tailored designs include transportation/courier, healthcare, retail and hospitality markets, as well as small and medium business manufacturing, warehouse and office environments.

Intuitive – Super Easy to Install & Use

- 10-language LCD or Icon graphics user interface maximizes uptime
- One hand media loading for trouble-free use
- Fastest throughput in its class at 8 ips
- Quick configuration with USB stick device

Flexible – Fits your business needs today & tomorrow

- User installable connectivity upgrades and accessories for scalability
- Leading command languages for seamless deployment
- Modular IT-friendly design speeds up deployment and support

Smart – Keeps you informed & productive

- Remote status updates with Intermec tools minimize downtime
- Programmable with ability to directly add keyboard or scale improves efficiency

Designed to set a new standard in user friendliness and flexibility, the compact Intermec PC23/PC43 provides an intuitive label printing solution. Available in 2" wide direct thermal (PC23d) and 4" direct thermal (PC43d) or 4" thermal transfer (PC43t), the PC series is perfect for space-constrained settings. Its low cost and fast operation make the PC series the smart choice for light duty labeling applications where users need reliable, easy to use printers.

Super Easy to install and use

Ideal for customers who are new to label printing or who are making the switch from laser or inkjet printers, the easy-to-use PC23 and PC43 desktop printers feature a double-wall clamshell construction for long term durability.

The PC series was designed by users for quick set-up and trouble-free use. With the most placement options including wall mount and battery power, the printer adapts to its environment and fits right in. No longer are users required to decode a blinking LED to determine printer status. The PC series comes with either a universal Icon interface or color LCD in 10 languages for immediate notifications reducing training and support needs. Configure and

update the PC printer on the spot with USB host port – no computer necessary. One-hand drop-in media loading (and reloading) makes it highly intuitive. Best of all, the disinfectant resistant case means it's made to last in your environment.

The PC43t thermal transfer printer takes both a half-inch or one-inch ribbon core in every printer. The one-inch core accommodates the largest ribbon roll (up to 11,811 inches / 300m) in a desktop printer reducing the need for frequent replacements helping to maximize uptime.

Off-the-shelf compatibility and certifications with a wide range of business and healthcare software applications enables users to be up and running quickly, requiring minimal IT support.

With a fast throughput at 8 ips, you can count on the PC series to deliver a productivity advantage for your labeling needs.

From a migration standpoint, the compact size, common media specifications, and multi-printer language platform of the PC series results in an easy path from legacy Intermec printers such as the PC4, PC41 and PF8, as well as from other desktop printers.

Fits your business needs today and tomorrow

No other desktop barcode printer offers more user-installable options ensuring your printer will grow as your business grows. Modular connectivity ensures the PC series will fit into your existing network environment. USB comes standard along with optional, user installable serial, parallel, secure Ethernet and dual wireless card with Bluetooth® and CCX-compliant 802.11 b/g/n.

The ability to use any Intermec printer language and emulate other non-Intermec printer protocols makes the PC series a cost-effective “drop-in” printer replacement in almost any environment. There’s no need to replace the printer if you upgrade your software environment – the printer will easily adapt. The PC series keeps your options open protecting your investment for the long term.

Leveraging the Intermec platform provides a solution that can adapt and grow as needs change – even upgrade seamlessly to Intermec industrial printers. This integrated approach provides significant efficiencies in development, deployment and support. The PC desktop printer series can host stand-alone applications developed through Intermec Fingerprint programming to address custom requirements today or in the future, without the need to upgrade hardware.

Keeps you informed and productive

The PC series offers many Smart features normally found only in industrial grade printers. By adding Intermec’s SmartSystems® and XMLLabel™, the PC series will be fully provisioned for remote management and XML printing environments. Furthermore Intermec SmartSystems provides remote monitoring and diagnostics to networked devices for quick maintenance, and upgrades. Support for Monotype fonts come standard helping to speed up configuration – all at an affordable and competitive price.

Intermec Delivers: Mobility Lifecycle Solutions & Services

Intermec provides customers and partners with best-in-class support, education, managed and advanced services. We deliver business optimization throughout the product lifecycle.

To protect your printer investment, **Intermec Medallion®** Support Services deliver the highest levels of productivity, device reliability, and uptime. With Medallion support, you can choose from either the Complete or Standard programs to get the amount of coverage and protection you need for your environment. For more information about Intermec’s lifecycle solutions and services, please visit us at <http://www.intermec.com/services>

Physical Description

The compact PC series includes both Direct Thermal (PC23d & PC43d) or Thermal Transfer (PC43t) printers designed for self-adhesive labels, nonadhesive tags, linerless, floodcoat, or continuous paper strip roll.

Specifications by Model

Model	Overall Printer size (With hinge and latch)			Weight
	Height	Width	Depth	
PC43d 4" DT Icon/LCD	167 mm (6.6 in)	180 mm (7.1 in)	215 mm (8.4 in)	1.72 kg (3.80 lbs)
PC43t 4" TTR Icon/LCD	182 mm (7.2 in) 227 mm (8.9 in)	210 mm (8.3 in)	281 mm (11.1 in)	2.70 kg (5.95 lbs)
PC23d 2" DT Icon/LCD	177 mm (6.9 in)	125 mm (4.9 in)	215 mm (8.5 in)	1.45 kg (3.20 lbs)

Print 203 dpi and 300 dpi standard

Real-time Clock: Standard (LCD)

Adjustable Gap Sensor (LCD)

Print Specifications

Maximum Label Width:

PC43: 118 mm (4.7 in); **PC23d:** 60 mm (2.4 in)

Maximum Label Length:

Standard: 203 dpi – 1727 mm (68 in)

300 dpi – 900 mm (35 in)

Print Direction: Prints text, bar codes and graphics in all four directions

Print Resolution: 8 dots/mm (203 dpi)

or 12 dots/mm (300 dpi)

Print Width:

PC43: 203 dpi – max. 104 mm (4.1 in);

300 dpi – max. 106 mm (4.2 in)

PC23d: 203 dpi – max. 56 mm (2.2 in);

300 dpi – max. 54 mm (2.1 in)

Printing Speed:

Selectable up to 8 ips (203.2 mm/sec) for 203 dpi;

6 ips (152.4 mm/sec) for 300dpi

Media Specifications

Label Roll –

Maximum Diameter: 127 mm (5 in)

Core Diameter: Min. 25.4 mm (1 in)

Max. 38.1 mm (1.5 in)

Paper Width:

PC43: Max. 118 mm (4.7 in), Min. 19 mm (0.8 in)

PC23d: Max 60 mm (2.36 in), Min 15 mm (0.6 in)

Label Length: Min. 6 mm (0.3 in)

Labels: A wide selection of stock and custom size labels are available from Intermec Media.

Ribbon Roll – PC43t accepts both 0.5" or 1.0" core

Core: 0.5" ID (12.7mm ID) or 1.0" ID (26 mm ID) with notches

Min width: 1.0" – ribbon only

Max width: 4.3"

Max. length:

0.5": 3,588 in (91.1 m)

1.0": 11,811 in (300 m)

Ribbons: A wide selection of widths and formulations available.

Connect to Print™

The printer comes with all included: software, drivers, USB cable, power adapter, power cord, and a handy QuickGuide to facilitate getting started, and a PrinterCompanion CD with label design program, Windows™ driver, configuration software and documentation.

Software

Printer Command Languages:

IPL, Fingerprint, ZSim (ZPLII Simulation), ESIm (EPL2 Simulation), DSIm (DPL Simulation), XML enabled for SAP® AII and Oracle® WMS

Applications/Drivers:

Interdriver™ Windows Printer Driver

Intermec Label design and print package

PrintSet for printer configuration, font and firmware downloading tool

Character Sets/Fonts

Printing

Standard: Monotype English and Latin, World Type Layout Engine (WTLE), Cyrillic, Latin, Greek, Turkish, Hebrew, Arabic, Baltic, Baltic RIM, Vietnamese, Thai). Universal Font Scaling Technology (UFST) and Standard Latin Fonts: Monotype Century Schoolbook, CG Times, CG Times Bold, Letter Gothic, Andale Mono (WGL4), Andale Mono Bold (WGL4), Univers 55, Univers Bold 65, Univers Condensed Bold, Univers Extra Condensed, OCR-A, OCR-B.

Optional: Downloading of additional fonts is also possible.

LCD Display Language

Standard: English, French, German, Italian, Portuguese, Russian, Spanish

Optional: Simplified Chinese, Traditional Chinese, Korean

Graphics

Supports user-defined fonts and graphic formats including BMP, GIF, PCX, and PNG.

Bar Code Symbolologies

All major 1-dimensional bar code symbolologies are available, plus 2-dimensional and composite codes:

Aztec, Code 16K, Code 49, Data Matrix, Dot Code, EAN-8, EAN-13, EAN.UCC 128, Grid Matrix, HIBC 39, HIBC 128, MaxiCode, MSI (modified Plessey), PDF417, Micro PDF417, Planet, Plessey, Postnet, QR-Code, RSS-14 (variations)

Environment (printing): +5° to +40°C (+40° to +104°F)

Humidity (printing): 10–80% RH non-condensing

Materials: Disinfectant resistant plastic (PC23d, PC43d) PC23d & PC43d case will not be damaged when cleaned with the following chemicals:

The following is a list of chemical disinfectants and cleaning solutions that have been successfully tested on the PC23d and PC43d. Cleaning these printers by using a wipe or cloth dampened by any of the disinfectants or cleaning solutions below will not cause damage to the printer case or media window.

Chemical Disinfectants

Viraguard®	Brand
Sodium Hypochlorite 6%	Veridien
Ammonium Chloride 10%	Multiple suppliers
SANI-CLOTH HB	Multiple suppliers
SANI-CLOTH PLUS	PDI
SUPER SANI-CLOTH	PDI
Cavi Wipes	PDI
Super HDQL 10	Metrex
Cloro-Wipe Towelette	Spartan
Virex	Surgipath
70% Isopropyl Alcohol	Johnson
Alcohol Prep Pads	Multiple suppliers
Ethylene Glycol	PDI, others
	Multiple Suppliers

Cleaners

Screen Cleaner	Brand
Tuffie Wipes	Multiple Suppliers
	Vernacare

Power Adapter

Separate power supply –

Input: 100–240 V AC/50–60 Hz, 1.5 A

Output: 24 V DC, 2.5 A
Energy Star Compliant

Memory

Standard: 128 MB Flash, 128 MB RAM (DDR2)

Optional: Up to 32 GB via user USB thumbdrive

Interface

Standard: USB Device Type B connector v.2.0 high speed, USB Host Type A connector v.2.0 high speed

Field Installable: Ethernet 10/100 Mbps module, Dual radio module (802.11 b/g/n and Bluetooth® V2.1), USB to Serial adapter (RS-232), USB to Parallel adapter

Protocol

Serial Flow Control: XON/XOFF, RTS/CTS

Wireless Protocol: WEP static (64/128bits), WPA, WPA2, WEP dynamic, EAP-PEAP, EAP-TTLS, LEAP, EAP-FAST, EAP-TLS, CCX compliant level 3.

Regulatory Approvals

CE, FCC Class A, cULus, UL, GS, TUVGS, BSMI, D Mark, cUL, CCC (China), KCC (South Korea), C-TICK (Australia/NZ)

Factory Installed Options

HF RFID (PC23d), UHF RFID (PC43)

User Installable Accessories/Upgrades

Dispenser with LTS, Cutter Unit with LTS (PC43d & PC43t) user settable partial or full cut, Front Label Tray (PC43d & PC43t), 300 dpi, Battery Unit (PC43d), Linerless (PC43d & PC43t), Power Adapter Tray (PC43d), Printer Case Lock

Service

No tools required to replace printhead and platen roller, user accessible odometer

User Interface

Choice of:

- 2.36" VGA LCD 480 x 234 resolution in 10 languages, 8 buttons and ready-to-work LED
- Graphical back-lit Icons (cover open, paper out, ribbon out (PC43t), general error, maintenance, pause, thermal printhead too hot, data status, wireless status (if installed), Bluetooth® status (if installed), ready-to-work LED and one Print/Feed button
- User configurable audio sounds with volume levels.

Safety Approvals

North America: UL and cUL Listed, UL 60950-1

Europe: D Mark, EN 60950-1; CE marked

Mexico: NYCE Certified, NOM 19

Other Countries: IEC 60950-1

EMC Approvals

USA FCC Title 47, Part 15, Subpart A, Class B; Europe EMC Directive (EN55022 Class B + EN55024); CISPR22

Warranty

One year; additional Medallion service packages available

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612165-03/12

In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.



PD₄₁/ PD₄₂

Commercial Printers



- **Strong metal construction** for demanding, medium-duty applications
- **User friendly design** with full graphic display (PD42) or simple one-button operation (PD41)
- **Smart Printing capabilities** support stand-alone printer applications, eliminating PC expense and complexity
- **All-in-one, user-selectable printer languages** - Fingerprint/Direct Protocol (DP), IPL, ZSim, DSim and ESim - in every printer
- **Secure wireless connectivity:** CCX and WiFi® certified with WPA2
- **Integrated Ethernet**, USB host and device, and serial interface standard
- **Internet Protocol v6 (IPv6)** support
- **Interchangeable print head** provides choice of 203 or 300 dpi print resolution

Members of the smartest bar code printer family on the market, the Intermec PD41 and PD42 are flexible and programmable, enabling customers to optimize their printing operations, streamline deployment, and achieve quick return on investment. Built to meet the needs of mission-critical applications, the rugged PD printers deliver advanced, secure connectivity and the latest network protocols, ensuring peace-of-mind today and a reliable, scalable solution for the long haul. The versatile PD41 and PD42 Commercial Printers are part of Intermec's complete line of smart, strong and secure industrial printers.

Smart

The PD printers' smart design features support increased productivity in demanding environments. As Smart Printers, they can host stand-alone applications, developed through Intermec Fingerprint programming language, that reduce errors and streamline operational processes. Smart Printers can eliminate the PC and control other devices directly (such as scanners, scales, applicators), improving efficiency and decreasing infrastructure costs and complexity.

Their integrated device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment. With user-selectable, all-in-one programming languages (Fingerprint,

IPL, ZSim, DSim, ESim), the PD printers fit existing IT infrastructures, deploying with drop-in simplicity to Intermec or mixed printer environments. Secure, industry-standard connectivity options support easy integration and fast deployment.

Strong

With their all-metal chassis and covers, proven printing mechanics and powerful electronics, the rugged PD printers reduce downtime and minimize maintenance costs. The PD41's simple, one-button interface provides the ultimate in ease-of-use. The PD42's graphical display allows users to set up, configure and fine tune printing parameters without having to send commands through the host, saving time. An open design makes media loading quick and easy, and the print head can easily be replaced without tools. The printers are co-engineered and tested with Intermec labels and other media products, ensuring optimized performance when used with genuine Intermec media.

Secure

Multiple interface options are available, including the highest level of secure wireless connectivity (WPA2). The industry's only printers available with WiFi- and CCX-Certification, Intermec industrial printers help maintain wireless network integrity and reduce configuration time. Every printer ships with Ethernet connectivity, as well as with emerging network protocol IPv6, ensuring long-term,

enterprise scalability. Other connectivity options – standard RS232 and USB ports, optional parallel port – provide additional integration flexibility.

The standard CompactFlash™ memory slot is complemented by new USB host and device support. Handy, inexpensive and PC-compatible, CompactFlash and USB memory technologies provide extra storage for Fingerprint programs, layouts, graphics*, fonts and firmware upgrades.

* Fingerprint only

Description

Direct thermal and thermal transfer label, ticket and tag printers, with one-button user interface (PD41) or full graphic user interface (PD42).

Physical Characteristics

Length: 453 mm (17.8 in)
Height: 273 mm (10.8 in)
Width: 270 mm (10.6 in)
Weight: 13 kg (28.7 lbs)

Print Specifications

Max. Width: 104 mm (4.09 in) at 203 dpi
105.7 mm (4.16 in) at 300 dpi
Max. Length: 1520 mm (59.8 in) at 203 dpi
1028 mm (40.5 in) at 300 dpi

Print Speed

50-150 mm/s (2-6 ips) at 203 dpi
50-100 mm/s (2-4 ips) at 300 dpi

Print Resolution

8 dots/mm (203 dpi)
11.8 dots/mm (300 dpi, option)

Media

Type: Labels & Tags
Max Width: 118.1 mm (4.65 in)
Max Width with cutter: 114mm (4.49 in)
Min Width: 25.4 mm (1 in)
Thickness: 2.3 to 9.8 mil
Configuration: Roll-fed, die-cut, continuous or fanfold
Sensing: Gap, notch, black mark, continuous
Label Roll Max Diameter: 213 mm (8.38 in)
Label Roll Core: 38-76mm (1.5-3 in)

Type: Ribbons

Roll Max Diameter: 76 mm (2.99 in) or approx. 450m

Core ID: 25.4 mm (1")

Type: Wax, mid-range, resin

Genuine Intermec Media: www.intermec.com/media

Interfaces

Standard:

- Ethernet 10/100 Mbps
- RS-232, up to 115.2 kB/s

Supported Serial Protocols:

- Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DTR, RTS/CTS
- IPL: XON/XOFF, Intermec Std. Protocol
- USB 2.0

Optional:

- Parallel IEEE 1284

Wireless:

- IEEE 802.11 b/g
- Wi-Fi Certified, CCX (Cisco®) version 3 Certified
- WEP, WPA, WPA2, 802.11x (EAP-TTLS, LEAP, PEAP, FAST), 802.11i

Supported Protocols: TCP/IP-suite (TCP, UDP, ICMP, IGMP, etc.), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv3, SMTP, SNMP-MIB II supported (over UDP/IP), private enterprise MIB included.

Supports IPv4 and IPv6

Software

Printer Command Languages:

- IPL
- Fingerprint/Direct Protocol
- ZSim (ZPL)
- DSim (DPL)
- ESim (EPL)
- XML enabled for SAP® All and Oracle® WMS

Applications / Drivers:

- InterDriver™ Windows printer driver
- Intermec label design and print package
- PrintSet for printer configuration

Development Software:

- Intermec Fingerprint Application Builder™ (IFAB)

Device Management Support:

- SmartSystems™
- Wavelink Avalanche™

Bar Code Symbolologies

All major 1D and 2D symbolologies are supported.

Standards Supported

UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; AIAG (shipping parts label); OGMARS; POSTNET; HIBCC; ISBT 128; GM1724; UPS shipping label; Global Transport label

Fonts

Scalable fonts including CP1252
Font cache for maximum performance
Non-Latin fonts and legacy fonts available

Graphics

Supports PCX file format. (Fingerprint Only)
Other formats supported with Label Generation Tools

Memory

Standard: 8MB Flash memory 16MB SDRAM (1 Compact Flash slot and 1 USB Boot / Hub Slot)
Available: Up to 1GB CompactFlash (type 1) memory, Multi GB USB Thumb Drive Memory

Keypad Control Panel

PD41:

One Print/Pause button
Four LED indicators: Power; Data Transfer; Error/Warning; Ready-to-Work

PD42:

Keypad Control Panel and LCD console
One Print/Pause button
Four LED indicators: Power; Data Transfer; Error/Warning; Ready-to-Work
Monochrome graphical display, 160 x 160 pixels

Power Supply

Voltage Range: 100-240 VAC ±10% auto switch
Frequency Range: 45-65 Hz

Operating Environment

Temperature: +5° to 40°C (+40° to 104°F)
Humidity: 20-85% non-condensing free air

Regulatory Approvals

FCC, UL, cUL, CE, NOM

Options

Internal rewinder, cutter, CompactFlash™ memory cards, parallel interface, real-time clock

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In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.



PX Series

High Performance Printers



- **Strong, all-metal construction** and superior throughput for 24x7 printing in harsh industrial environments
- **Ideal for high volume & compliance applications** - the PX4i prints at 406 dpi without loss of speed
- **Modular design** facilitates integration into automated labeling applications
- **Smart Printing capabilities** support stand-alone printer applications, eliminating PC expense and complexity
- **All-in-one, user-selectable printer languages** - Fingerprint/ Direct Protocol (DP), IPL, ZSim and DSim - in every printer
- **Secure wireless connectivity** : CCX and WiFi® certified with WPA2
- **Integrated Ethernet**, USB host and device, and serial interface standard
- **Internet Protocol v6 (IPv6)** support
- **Interchangeable print head** provides choice of print resolution
- **RFID option** supports ISO18000 - 6B 6C/ EPC Gen 2

Members of the smartest bar code printer family on the market, the PX4i and PX6i are flexible and programmable, enabling customers to optimize their printing operations, streamline deployment, and achieve quick return on investment. Built to meet the needs of round-the-clock, mission-critical applications, the rugged PX printers deliver advanced connectivity and network protocols, ensuring peace-of-mind today and a reliable, scalable solution for the long haul. The PX4i and PX6i High Performance Printers are part of Intermec's complete line of smart, strong and secure industrial printers.

Smart

The PX printers' smart design features support increased productivity in demanding environments. As Smart Printers, they can host stand-alone applications, developed through Intermec Fingerprint programming language, that reduce errors and streamline operational processes. Smart Printers can eliminate the PC and control other devices directly (such as scanners, scales, applicators), improving efficiency and decreasing infrastructure costs and complexity.

The printers' device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment. With user-selectable, all-in-one programming languages (Fingerprint, IPL, ZSim, DSim), the PX printers fit with

drop-in simplicity to Intermec or mixed printer environments. Their modular design facilitates integration into automated labeling applications and industry-standard connectivity options support fast deployment.

Strong

The rugged, all-metal PX printers deliver outstanding performance – up to 12 inches per second from first label to last – and incorporate features that reduce downtime and minimize maintenance costs. Both versions are available with 203 or 300-dpi resolution, and the PX4i also offers 406 dpi, for precision labeling without any loss of speed. This is ideal for compliance labeling applications with variable data requiring immediate results.

An enhanced self-strip option delivers consistent performance across multiple media types. Replacing printheads is fast and easy, thanks to the magnetic QuickMount™ printhead design. The PX Series printers are co-engineered and tested with Intermec labels and other media products, optimizing performance when used with genuine Intermec media.

Secure

Multiple interface options are available, including the highest level of secure wireless connectivity (WPA2). Available with WiFi- and CCX-Certification, Intermec industrial printers help maintain wireless network integrity and reduce configuration

time. Every printer ships with Ethernet connectivity, as well as with emerging network protocol IPv6, ensuring long-term, enterprise scalability.

The standard CompactFlash™ memory slot is complemented by new USB host and device support. Handy and PC-compatible, these memory technologies provide extra storage for Fingerprint programs, layouts, graphics*, fonts and firmware upgrades. The RFID-enabled PX printers enable companies to create RFID smart labels and drive the latest RFID applications.

* Fingerprint only

Physical Description

Direct thermal and thermal transfer label, ticket and tag printer. Also available with RFID.

Physical Characteristics

LxHxW:

PX4i: 482 x 238 x 275 mm (19.0 x 9.4 x 10.8 in)

PX6i: 482 x 238 x 335 mm (19.0 x 9.4 x 13.2 in)

Weight:

PX4i: 12.85 kg (28.4 lbs)

PX6i: 14.80 kg (32.6 lbs)

Print Specifications

Max. Print Width:

PX4i: 112 (DT)/110 (TT) mm (4.4/4.3 in)

PX6i: 167.4 mm (6.59 in)

Max. Length:

4095 mm (161 in) at 203 dpi

2775 mm (109 in) at 300 dpi

1016 mm (40 in) at 406 dpi

RFID Standards & Frequencies

Supports ISO 18000-6B and 18000-6C / EPC Generation 2

865-928 MHz radio configured to comply with local UHF RFID regulations including FCC and ETSI. Contact local representative for availability in particular region.

Print Speed

PX4i: 100 - 300 mm/s (4 - 12 ips) for 203/300dpi

100 - 250 mm/s (4 - 10 ips) for 406 dpi

PX6i: 100 - 225 mm/s (4 - 9 ips) for 203/300dpi

Media

Type: Labels & Tags

Max/Min Width:

PX4i: 120/ 25.4mm (4.72/ 1 in)

PX6i: 170/ 76 mm (6.69/ 3 in)

Thickness: 2.4 to 10.0 mil

Configuration: Roll-fed or fanfold

Sensing: Gap, notch, black mark, continuous

Label Roll Max Diameter: 213 mm (8.38 in)

Label Roll Core: 38-76mm (1.5-3 in)

Type: Ribbons

Roll Max Diameter: 80 mm (3.15in), approx. 450m

Core ID: 25.4 mm (1")

Type: Wax, mid-range, resin

Genuine Intermec Media: www.intermec.com/media

Interfaces

Standard:

- Ethernet 10/100 Mbps
- RS-232, up to 115.2 kB/s

Supported Serial Protocols:

- Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DTR, RTS/CTS
- IPL: XON/XOFF, Intermec Std. Protocol
- USB 2.0

Optional:

- Parallel IEEE 1284
- Industrial Interface (8 digital in/out, 4 analog relays, 1 RS232/422/485 port)
- Dual Serial ports RS-232, RS-422, RS-485 and 20mA Current Loop, Applicator Interface

Wireless:

- IEEE 802.11 b/g
- Wi-Fi Certified, Cisco® Compatible (CCX) version 3 Certified
- WEP, WPA, WPA2, 802.11x (EAP-TTLS, LEAP, PEAP, FAST), 802.11i
- Multiple industrial antenna options for maximized coverage

Supported Protocols: TCP/IP-suite (TCP, UDP, ICMP, IGMP, etc.), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv3, SMTP. SNMP-MIB II supported (over UDP/IP), private enterprise MIB included. Supports IPv4 and IPv6

Software

Printer Command Languages:

- IPL
- Fingerprint/Direct Protocol
- ZSim (ZPL)
- DSim (DPL)
- XML enabled for SAP® All and Oracle® WMS

Applications / Drivers:

- InterDriver™ Windows printer driver
- Intermec label design and print package
- PrintSet for printer configuration

Internet

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Media Sales

Phone: (513) 874-5882

Customer Service and Support

Toll Free NA: (800) 755-5505

Toll in NA: (425) 356-1799

Development Software:

- Intermec Fingerprint Application Builder™ (IFAB) (RFID libraries included)

Device Management Support:

- SmartSystems™
- Wavelink Avalanche™

Bar Code Symbolologies

All major 1D and 2D symbolologies are supported.

Standards Supported

UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; AIAG (shipping parts label); OGMARS; POSTNET; HIBCC; ISBT 128; GM1724; UPS shipping label; Global Transport label

Fonts

Scalable fonts including CP1252

Font cache for maximum performance

Non-Latin fonts and legacy fonts available

Graphics

Supports PCX file format. (Fingerprint Only)

Other graphic formats supported with Label Generation Tools

Memory

Standard: 16MB Flash memory, 32MB

SDRAM, 1 Compact Flash slot

Available: 1GB CompactFlash memory, multi-GB USB memory device (FAT16/FAT32 USB drivers supported)

Keypad Control Panel

Interactive numeric keypad control panel

Power Supply

AC Voltage: 90 to 265 VAC, 45 to 65Hz

PFC Regulation: IEC 61000-3-2

Power Consumption: Standby 20W;

Continuous average 125W; Peak 400W

Operating Environment

Ambient Operating Temperature:

+5°C to +40°C (+41°F to +104°F)

Storage Temperature: -20°C to +70°C (-4°F to +152°F)

Humidity: 10 to 90% non-condensing

Regulatory Approvals

CE (EN55022 Class A), FCC Class A, UL/cUL, C-Tick

Options

RFID, integral self-strip unit with liner takeup, Label Taken Sensor (LTS), Compact Flash (CF) memory, various international double byte fonts, alphanumeric keyboard*, parallel interface board, additional serial interface board*, industrial interface board*, applicator interface board*, real time clock, media supply hub, cutter, label low sensor

*Not applicable when using IPL firmware

Intermec®
SmartSystems™

Intermec®
RFID



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In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.





Zebra® ZE500™ Series Print Engine



SEE MORE. DO MORE.



Innovative design, greater benefits

The new ZE500 Series takes an innovative approach to OEM print engines. Leveraging extensive customer research, the design focuses on ease of use, integration and servicing. Built with the customer in mind, the ZE500 Print Engine is designed to keep mission-critical print-and-apply applications operating without interruptions.

The elegant design of the ZE500 simplifies maintenance and dramatically reduces downtime. All three rollers can be exchanged in minutes, with no need to access the printer's electronics. The wide open printhead makes cleaning

and replacement simple, and the quick-change modular drive system reduces printer repair time.

Routine operations such as ribbon changing are simple and straightforward (and identical for both print widths). The new graphic display can be deported and rotated, enabling flexible positioning for improved ease of use and integration.

The user experience is much improved: the design enables easy integration with print-and-apply machinery plus has better resistance to dust and water. Expanded connectivity ports and enhanced software control of the applicator port provides further integration flexibility.

Ideal for print-and-apply labelling applications for products, cartons, cases and pallets in:

- Manufacturing and warehousing
- Automotive
- Pharmaceuticals
- Food and beverage
- Health and beauty

Get the most out of your Zebra printer: put genuine Zebra supplies in!

Zebra offers a wide range of supplies for ZE500 Series Print Engines, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads

For more information, visit www.bbk-gmbh.de



SPECIFICATIONS AT A GLANCE*

ZEBRA ZE500 SERIES PRINT ENGINE

Standard features

- Print methods: thermal-transfer or direct-thermal
- Orientation: right-hand or left-hand
- Industrial all-metal construction
- 16MB SDRAM, 64MB flash memory
- Applicator interface
- Transmissive and reflective media sensors
- Multi-level Element Energy Equalizer™ (E³™) for superior print quality
- Real-time clock
- Rotatable display
- ZPL II™ – universal language for Zebra printers

Printer specifications

ZE500-4™:

- Maximum print width: 104mm (4.1")

Media specification

- Label and liner width: 16mm (0.625") to 114mm (4.5")
- Minimum length with back feed: 13mm (0.5")
- Minimum length without back feed: 6.5mm (0.25")
- Minimum length in stream mode: 6.5mm (0.25")
- Maximum length: 990mm (39")
- Maximum continuous media print length: 3,810mm (150")
- Ribbon width: 25.4mm (1") to 107mm (4.2")

Resolution

- 8 dots/mm (203dpi) or 12 dots/mm (300dpi)

Maximum print speed

- 305mm (12") per second (203 and 300 dpi)

ZE500-6™:

- Maximum print width: 168mm (6.6")

Media specification

- Label and liner width: 76mm (3") to 180mm (7.1")
- Minimum length with back feed: 76mm (3")
- Minimum length without back feed: 25.4mm (1")
- Minimum length in stream mode: 25.4mm (1")
- Maximum length: 990mm (39")
- Maximum continuous media print length: 3,810mm (150")
- Ribbon width: 76mm (3") to 180mm (7.1")

Resolution

- 8 dots/mm (203dpi) or 12 dots/mm (300dpi)

Maximum print speed

- 305mm (12") per second (203dpi)
- 254mm (10") per second (300dpi)

Media characteristics

Labels

Media thickness (label and liner)

- ZE500-4: 0.135mm (0.0053") to 0.254mm (0.010")
- ZE500-6: 0.076mm (0.003") to 0.305mm (0.012")

Media types

- Continuous, die-cut or black mark

Ribbons

Max. roll size

- 101.6mm (4") O.D. on a 25.4mm (1") I.D. core

Standard length

- 600m capacity

Operating characteristics

Environment

- Operating temp.: 0°C (31°F) to 40°C (104°F)
- Storage temp.: -40°C (-40°F) to 71°C (160°F)
- Operating humidity: 20% to 95% non-condensing R.H.
- Storage humidity: 5% to 95% non-condensing R.H.

Electrical

- Universal power supply with power-factor correction 90–264 VAC, 47–63Hz

Connectivity

- Parallel port: Centronics®-compatible
- Serial interface: RS-232
- USB 2.0
- Internal ZebraNet™ 10/100
- Applicator interface with DB-15F connector
- Optional ZebraNet b/g Print Server

Agency Approvals

- VCCI, CCC
 - Standards approvals: IEC 60950-1; EN 55022, Class A; EN 55024; EN 61000-3-2, 3-3
 - Product markings: NRTL; CE; FCC A; ICES-003; VCCI; C-Tick; CCC; NOM; Gost-R; S-Mark; KCC; BSMI

Physical characteristics

ZE500-4:

- Width: 245mm (9.6")
- Depth: 379mm (14.9")
- Height: 300mm (11.8")
- Weight: 15.4kg (34lb)

ZE500-6:

- Width: 245mm (9.6")
- Depth: 438mm (17.2")
- Height: 300mm (11.8")
- Weight: 17.3kg (38lb)

Fonts/Graphics/Symbologies

Fonts and character sets

- Zebra Global printing solution including Unicode™
- Swiss 721 font standard
- Bitmap fonts A to H and GS symbols are expandable up to 10 times, height- and width-independent
- Smooth-scalable font Ø (CG Triumvirate™ Bold Condensed) is expandable dot-by-dot, height- and width-independent
- IBM® Code Page 850 International Characters
- Contains UFST® from Agfa Monotype Corporation
- Firmware support for downloadable TrueType™ fonts
- Additional fonts available

Graphics features

- Supports user-defined fonts and graphics, including custom logos

Barcode symbologies

- All standard linear and 2D barcodes supported

ZebraLink™ Solutions

Software

- ZebraDesigner™ Pro
- ZebraNet Bridge Enterprise
- ZBI 2.0™ ZBI-Developer™

Firmware

- ZPL II
- Web View
- Alert
- ZBI 2.0

*Specifications subject to change without notice.

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SEE MORE.
DO MORE.

www.zebra.com



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Please recycle after use

12628L (08/12)

Zebra® ZT200™ series



Designed with the user in mind

Zebra incorporated extensive customer feedback, as well as the legacy of its Stripe® and S4M™ printers, to create the new ZT200 series printers, which feature elegant space-saving design, effortless setup, intuitive user operation, and ease of service and maintenance.

Whether you are adopting barcode technology for the first time or upgrading existing printer models, the ZT200 series is the right choice for a variety of labelling applications. These innovative new printers provide many user benefits.

The ZT200 series offers a streamlined design and smaller footprint that takes up less physical space than the Stripe and S4M models. ZT200 series printers require minimal operator training and benefit from tool-less standard component maintenance and a durable design to minimise service. Your IT staff will appreciate the backwards compatibility, since it allows for new printers to be up and running with minimal downtime.

The ZT200 series has been designed for ease of use, versatility and outstanding value.

Ideal for:

- **Manufacturing**
 - Work-in-process
 - Product ID/serial numbers
 - Packaging labels
 - Receiving/put-away labelling
- **Transportation/Logistics**
 - Order picking/packing
 - Shipping/Receiving
 - Cross-docking
 - Compliance labelling
- **Healthcare**
 - Orders
 - Specimen labels
 - Asset-tracking
 - Unit-of-use labelling
- **Retail**
 - Shelf labelling
 - Shipping
 - Returns
 - Item tags
- **Government**
 - Asset-tracking
 - Logistic labelling
 - Warehousing



The ZT200 series design is the culmination of extensive feedback from our customers and understanding their printing applications, evolving business needs and operational challenges.

Space-saving design

- Compact footprint and streamlined design fits easily in confined areas where space is at a premium
- Elegant space-saving design with unique bi-fold door (requires 102mm/4" of opening space) fits easily into tight spaces, maximising work space

Fast installation and integration

- Ideal replacement printer for older Stripe and S4M models
- Multiple connectivity options: parallel, 10/100 Ethernet, 802.11b/g/n wireless
- Icon-based status LEDs provide immediate and easily visible printer status

Intuitive, effortless media loading

- Side-loading design eliminates complicated threading of supplies
- Colour-coded cues give even first-time users visual guidance for loading ribbon and media
- Illuminated moveable sensor is visible through the media for trouble-free sensor-position adjustment

The ZT200 series offers outstanding performance and features not usually found in a printer this affordable.

Print quality

- Engineered for greater print precision with fine-tuned adjustments
- Crisp, clean text and barcodes – even on narrow media

Zebra reliability and durability

- Built for light industrial and commercial environments
- Energy Star®-compliant
- Drive system designed for optimal performance, with minimal maintenance required

Simplified serviceability

- Easy, tool-less platen and printhead removal enable simple cleaning and replacement
- Simple interchangeable connectivity options enable rapid printer changes and upgrade
- Only three common tools needed for basic service

Comparing the ZT220™ and the ZT230™ models

The ZT200 series offers two models – the ZT220 and the ZT230. Compare the features to see which printer best suits your needs.

ZT230

- Rugged all-metal case for long-lasting use
- 450m ribbon capacity for increased uptime and fewer ribbon changes
- Graphical user interface printer setup and control
- Ideally suited for barcode-labelling applications that require more frequent label changes

ZT220

- Zebra's most affordable table-top printer
- Durable high-impact polymer case for long-lasting use
- 300m ribbon capacity
- Simple single-use three-button user interface
- Ideally suited for barcode-labelling applications with infrequent label changes

ZebraCare™ Services

Increase printer uptime and reduce lost productivity and unbudgeted repair costs by selecting a ZebraCare service agreement. A cost-effective means of planning and budgeting for your annual maintenance expenditures, your agreement ensures that trained Zebra technicians will bring your printer back to factory specifications. Zebra offers a variety of plans to fit your budget and business needs.

ZebraLink™ software

The ZebraLink suite of software and tools makes it simple to design, manage and adapt a print solution tailored to meet your unique business needs. Each solution component is designed to maximise ease of use and integration. With ZebraLink, you'll get more performance, value and power out of your ZT200 printers with minimal IT attention or process disruptions.

Genuine Zebra supplies

Zebra offers a wide range of supplies for your ZT200 series printers, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads

For more information visit, www.bbk-gmbh.de



Specifications at a glance*

Standard features

- Print methods: direct-thermal or thermal-transfer (optional)
- Construction: metal frame with choice of metal (ZT230) or plastic (ZT220) media cover
- Bi-fold media door with large clear window
- Side-loading supplies path for simplified media and ribbon loading
- Element Energy Equalizer™ (E³™) for superior print quality
- Bi-colour LEDs for quick printer status
- Icon-based LCD multilingual graphical user interface and full function keypad (ZT230)
- Simple keypad (ZT220)
- USB 2.0 and RS-232 serial ports
- Energy Star-compliant

Printer specifications

Resolution

- 8 dots per mm/203dpi
- 12 dots per mm/300dpi (optional)

Memory

- Standard: 128MB flash (58MB user-available), 128MB DRAM

Print width

- 104mm/4.09"

Print speed

- 152mm/6" per second

Media sensors

- Transmissive and reflective sensors

Media characteristics

- Maximum label and liner width: 114mm/4.5"
- Maximum non-continuous label length: 991mm/39"

Media width

- 19.4mm/0.75" to 114mm/4.50"

Print length

- 203dpi: 3,988mm/157"
- 300dpi: 1,854mm/73"

Maximum media roll size

- 203mm/8.0" O.D. on a 76mm/3.0" I.D. core
- 152mm/6.0" O.D. on a 25mm/1.0" I.D. core

Media thickness

- 0.076mm/0.003" to 0.25mm/0.010"

Media types

- Continuous, die-cut, notch, black-mark

Ribbon characteristics

(Thermal-transfer option only)

Outside diameter

- 81.3mm/3.2" on a 25mm/1.0" I.D. core (ZT230)

Standard length

- 300m/984' (ZT220) or 450m/1,476' (ZT230)

Ratio

- 2:1 media-roll-to-ribbon ratio for ZT220
- 3:1 media-roll-to-ribbon ratio for ZT230

Width

- 40mm/1.57" to 110mm/4.33"

Ribbon setup

- Ribbon wound ink-side out, core to core

Operating characteristics

Environmental

- Operating temperature: 5°C to 40°C (thermal-transfer) and 0°C to 40°C (direct-thermal)
- Storage temperature: -40°C to 60°C
- Operating humidity: 20% to 85% non-condensing
- Storage humidity: 5% to 85% non-condensing

Electrical

- Universal auto-ranging (PFC-compliant) power supply 90–265VAC; 48–62Hz
- Energy Star-compliant

Agency approvals

- IEC 60950, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3
- Markings: UL, CE Marking, FCC-B, ICES-003, VCCI, C-Tick, NOM, IRAM, CCC, GOST-R

Physical characteristics (ZT220 closed)

- Width: 239mm/9.4"
- Height: 280mm/11"
- Depth: 432mm/17"
- Weight: 7.8kg/17lb

Physical characteristics (ZT230 closed)

- Width: 242mm/9.5"
- Height: 277mm/10.9"
- Depth: 432mm/17"
- Weight: 9.1kg/20lb

Options and accessories

- Peel – a front-mount, passive-peel with no take-up spindle
- Peel – a front-mount, passive-peel with liner take-up spindle (factory-fit only)
- Cutter – a front-mount guillotine cutter
- Real-time clock (RTC)
- Keyboard display unit (KDU)

ZebraLink Solutions

Optional software

- ZebraDesigner™ Pro
- ZebraNet™ Bridge Enterprise
- ZebraNet Setup Utilities v 7.0
- ZBI 2.0™ ZBI-Developer™

Optional connectivity

- ZebraNet® b/g/n Wireless Print Server (internal)
- ZebraNet 10/100 PrintServer (internal or external)
- Centronics® parallel port (internal)

Firmware

- ZPL II®
- Zebra Global Printing Solution
- EPL2™ (late 2012)
- Web View & Alert
- ZBI 2.0 (optional)

Barcode symbologies

- **Linear barcodes:** Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN with 2 or 5 digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code
- **2-Dimensional:** Aztec, Codablock, PDF417, Code 49, Data Matrix, MaxiCode, QR Code, MicroPDF417, TLC 39, RSS-14 (and composite)

Fonts and graphics

- 7 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed). Contains UFST® from Agfa Monotype
- Pre-loaded Unicode™-compliant scalable fonts for EMEA character sets
- International character sets supporting the following code page: IBM® Code Page 850
- Supports user-defined fonts and graphics, including custom logos
- ZPL II drawing commands including boxes and lines

For optimum print quality and printer performance, use genuine Zebra supplies.

*Specifications subject to change without notice.

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SEE MORE.
DO MORE.

www.zebra.com



BBK Etikettier- und Sondermaschinenbau GmbH

Dieselstraße 18 • D-64743 Beerfelden

Phone: 06068 9310-0 • Fax: 06068 9310-99

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Zebra® 105SL*Plus*™ Printer



SEE MORE. DO MORE.



Economical, dependable, high-performance printing

Zebra's 105SL*Plus* printer provides economical, dependable, high-performance printing. This rugged printer is built for continuous operation, with exactly the features needed for fast, reliable and cost-effective printing in your manufacturing and warehousing environments.

Zebra created the 105SL*Plus* printer with ease of use in mind. The icon-based, multilingual graphical LCD user interface is intuitive to operate, minimising user training and making the printer ideal for a multitude of languages and global applications. The simplified ribbon-loading process minimises downtime.

The 105SL*Plus* printer offers durable all-metal construction and a robust print mechanism to withstand the toughest environments.

The 105SL*Plus* printer leverages Zebra's proven electronics platform to offer increased speed for high-volume applications – and increased storage of formats, fonts and graphics. The print quality is outstanding, with E³™ technology that also extends the life of the printhead.

The 105SL*Plus* printer is designed to easily fit into existing operations. Multiple standard connectivity options including parallel, serial, USB and Ethernet, coupled with full backwards compatibility, make integration fast and simple. For added connectivity, choose the optional ZebraNet™ b/g Print Server for wireless support.

Ideal for:

- **Manufacturing**

- Product identification labels
- Packaging labels
- Receiving/put-away labelling
- Work-in-process

- **Transportation & Logistics**

- Order picking/packing
- Shipping/receiving
- Cross-docking
- Compliance labelling

- **Retail**

- Shipping
- Returns

- **Government**

- Asset-tracking
- Compliance labelling

SPECIFICATIONS AT A GLANCE*

ZEBRA 105SL*Plus* PRINTERS

Printer name	Ribbon characteristics	ZebraLink™ Solutions
105SL <i>Plus</i>	<ul style="list-style-type: none"> Standard lengths: 450m/1476' or 300m/984' Provides 2:1 and 3:1 media-roll-to-ribbon ratios Maximum ribbon roll size: 81.3mm/3.2" O.D. on a 25.4mm/1.0" I.D. core Ribbon wound coated-side out Ribbon width: 20mm/0.79" to 110mm/4.33" 	Software <ul style="list-style-type: none"> ZebraDesigner™ Pro ZebraDesigner for myXML ZebraNet Bridge Enterprise ZebraDesigner for mySAP™ ZebraDesigner for XML ZebraNet Utilities v 7.0 Optional connectivity <ul style="list-style-type: none"> ZebraNet b/g Print Server (internal) Firmware <ul style="list-style-type: none"> ZPL II® Zebra Global Printing Solution Web View & Alert ZBI 2.0™ (optional)
Standard features	Operating characteristics	Fonts and character sets
<ul style="list-style-type: none"> Full-function front panel and large multilingual backlit LCD display with user-programmable password protection Thin-film printhead with Element Energy Equalizer™ (E³) for superior print quality 8MB flash memory, including 2MB user-available non-volatile memory storage for downloadable objects Serial RS-232 and bi-directional parallel ports with auto-detect USB 2.0 Dual media sensors (transmissive and reflective) selectable through software or front panel Internal ZebraNet 10/100 Print Server supports 10Base-T, 100Base-TX and fast Ethernet 10/100 auto-switching networks 	Environment <ul style="list-style-type: none"> Operating environment: Thermal-transfer: 5°C/40°F to 40°C/105°F Direct-thermal: 0°C/32°F to 40°C/105°F 20% to 85% non-condensing relative humidity Storage/Transportation environment: -40°C/-40°F to 60°C/140°F 5% to 85% non-condensing relative humidity Electrical <ul style="list-style-type: none"> Universal power supply with power-factor correction 100–240VAC, 47–63Hz Agency approvals <ul style="list-style-type: none"> IEC 60950-1, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3 Product markings: cTUVus, CE, FCC-B, ICES-003, VCCI, C-Tick, NOM, S-Mark (Arg), CCC, GOST-R, BSMI, KCC and UkrSEPRO 	<ul style="list-style-type: none"> Zebra Global Printing solution including Unicode™ Swiss 721 font standard Bitmap fonts A to H and GS symbols are expandable up to 10 times, height- and width-independent Smooth-scalable font Ø (CG Triumvirate™ Bold Condensed) is expandable dot-by-dot, height- and width-independent IBM® code page 850 international characters Contains UFST® from Monotype Imaging, Inc. Firmware support for downloadable TrueType™ fonts Additional fonts available
Printer specifications	Physical characteristics	Graphics features
Resolution <ul style="list-style-type: none"> 203dpi/8 dots per mm 300dpi/12 dots per mm (optional) Memory <ul style="list-style-type: none"> Standard: 16MB SDRAM; 8MB flash Print width <ul style="list-style-type: none"> 102mm/4.0" Print length <ul style="list-style-type: none"> 203dpi: 3,810mm/105" (with standard memory) 300dpi (optional): 2,540mm/100" (with standard memory) Print speed <ul style="list-style-type: none"> 203dpi: 305mm/12" per second 300dpi: 254mm/10" per second 	<ul style="list-style-type: none"> Height: 393.7mm/15.5" Width: 1,261.9mm/0.31" Depth: 517.5mm/20.38" Weight: 22.7kg/50 lb 	Barcode symbologies <ul style="list-style-type: none"> All standard linear and 2D barcodes supported <p>For optimum print quality and printer performance, use genuine Zebra supplies.</p>
Media sensors	Options and accessories	
<ul style="list-style-type: none"> Black mark and gap media sensing using fixed centre-position sensors; label-present sensor for issuing labels one at a time 	<ul style="list-style-type: none"> Cutter and catch tray Media rewind spindle: internal finished-roll rewind or passive-peel with liner take-up spindle 64MB On-Board Linear Flash Memory (factory-installed only) Scalable and international fonts 	
Media specifications		
<ul style="list-style-type: none"> Media types: continuous, die-cut, or black mark, notch Media thickness (label and liner): 0.076mm/0.003" to 0.305mm/0.012" Maximum media roll size: 203mm/8.0" O.D. on a 76mm/3" I.D. core Media width (label and liner): 20mm/0.79" to 114mm/4.5" Maximum non-continuous label length: 991mm/39" 		



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Zebra® Xi™ series



Incredibly robust. Totally reliable. Extremely fast.

Designed to deliver the perfect blend of performance and functionality, the robust and reliable Xi series printers are optimised for high-volume operations.

Zebra Xi series printers are legendary for their durability, outstanding print quality, fast throughput, long life and unparalleled reliability in demanding applications. These qualities translate into low total cost of ownership – making them an ideal smart investment for businesses with high-volume, mission-critical and speciality labelling applications.

Xi4™ printers build on this legacy to boost operational productivity beyond previous Xi generations with faster print speeds on selected models, dependable print quality and enhanced early-warning systems.

Versatile connectivity options plus remote printer deployment/management via ZebraLink™ Solutions ensure that integration is now even easier.

Enhanced Xi4 printers feature:

- Dependable print quality – on-board diagnostics to ensure optimum print quality
- Faster print speeds – up to 356mm per second (110Xi4™ and 140Xi4™) for increased batch and print/apply productivity
- Large easy-to-read front panel with LCD content and navigation customisable to meet user needs
- Fast 10/100 Ethernet connectivity as standard
- Improved ribbon- and media-low LCD/network alerts
- RFID-upgrade-ready (110Xi4)



Ideal for:

Manufacturing

- Work-in-progress labelling
- Asset management
- Inventory management
- Product-identification labelling
- Compliance labelling

Transport and logistics

- Receiving and shipping labels
- Asset-tracking labels

Government and public sector

- Military logistics

Get the most out of your Zebra: put genuine Zebra supplies in!

Zebra offers a wide range of supplies for Xi printers, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads

► For more information, visit www.bbk-gmbh.de



Xi series printers and accessories

Meet the Xi4 family!

Xi4 printers offer superior ZebraLink Solutions, including:

Software

- ZebraDesigner™ Pro – An intuitive, easy-to-use software program that makes creating complex label designs and changing label format simple
- ZebraDesigner – Offers basic design features focused on delivering an easy-to-use label design application
- ZebraNet™ Bridge Enterprise – Centrally manage Zebra printers from a single PC screen anywhere on your global network
- ZebraNet Utilities v 7.0 – Provides enhanced printing, conversion and administration capabilities, message management and more
- Zebra Universal Driver – The most powerful driver available from Zebra
- ZBI-Developer™ – Intuitive programming utility used to create, test and distribute ZBI™ applications

Networking

- ZebraNet® Wireless Plus Print Server – Delivers wireless security and new wireless capabilities
- ZebraNet 10/100 Print Server – Available in an internal or external version that provides a complete wired solution for 10Base-T, 100Base-TX and Fast Ethernet 10/100 auto-switching networks

Firmware

- ZPL II® – Universal language for Zebra printers simplifies label formatting and enables format compatibility with other Zebra printers
- XML-enabled printing – Direct-connect integration for bar-code-label printing that eliminates licence fees and printer server hardware, and lowers customisation and programming costs
- Web View – Enables you to connect and control your bar code printer's Web interface using a common Web browser
- Alert – Printers equipped with ZebraNet print servers will notify you via any e-mail-enabled wired or wireless device to minimise downtime
- ZBI – Optional, powerful programming enhancement that lets printers run stand-alone applications, connect to peripherals, and much more

110Xi4 – 203/300dpi



The 110Xi4, with 203- or 300dpi printhead, prints up to four inches wide, making it ideal for shipping, warehousing and manufacturing. For crisp, high-quality printing on small product labels, order the 110Xi4 with 300dpi printhead.

Technical specifications*

Maximum print area

Width: 102mm (4")
Length: 991mm (39")

Resolution

8 dots/mm (203dpi)
12 dots/mm (300dpi)

Maximum print speed

203dpi: 356mm (14") per second
300dpi: 305mm (12") per second

Physical characteristics

Width: 261.9mm (10.31")
Depth: 517.5mm (20.38")
Height: 393.7mm (15.5")
Weight: 22.7kg (50lb)

Media specifications

Label and liner width: 20mm (0.79") to 114mm (4.5")
Ribbon width: 20mm (0.79") to 110mm (4.33")

RFID upgrade-ready

The 110Xi4 printer has an RFID-ready option that allows you to upgrade to RFID technology in the future. Upgrade kit for UHF EPC Gen 2, Class 1-compliant. RFID enablement coming soon.

110Xi4 – 600dpi



110Xi4 with 600dpi printhead is unmatched at printing precise bar codes, text and graphics in limited label space. This printer is ideal when you require extremely high resolution and density – for labelling electronic components, telecommunication assemblies, medical devices, pharmaceutical vials, and more.

Technical specifications*

Maximum print area

Width: 102mm (4")
Length: 991mm (39")

Resolution

23.5 dots/mm (600dpi)

Maximum print speed

152mm (6") per second

Physical characteristics

Width: 261.9mm (10.31")
Depth: 517.5mm (20.38")
Height: 393.7mm (15.5")
Weight: 22.7kg (50lb)

Media specifications

Label and liner width: 20mm (0.79") to 114mm (4.5")
Ribbon width: 20mm (0.79") to 110mm (4.33")

* Specifications subject to change without notice.

140Xi4



The 140Xi4 is one of the fastest printers in Zebra's *Xi* series, printing at up to 355mm (14") per second. With such powerful performance and steel construction, it is the ideal choice for high-volume, mission-critical applications with 24-hour duty cycles. The 140Xi4 is also well suited for applications in which labels are required quickly, either on demand or in batches.

Technical specifications*

Maximum print area

Width: 128mm (5.04")
Length: 991mm (39")

Resolution

8 dots/mm (203dpi)

Maximum print speed

356mm (14") per second

Physical characteristics

Width: 287.3mm (11.31")
Depth: 517.5mm (20.38")
Height: 393.7mm (15.5")
Weight: 25kg (55lb)

Media specifications

Label and liner width: 40mm (1.57") to 140mm (5.51")
Ribbon width: 40mm (1.57") to 130mm (5.1")

170Xi4™



The 170Xi4 is ideal for AIAG, ODETTE, UCC/EAN-128 and other compliance labels on demand or in batches. With 203- and 300dpi print resolution, it can print labels up to 168mm (6.6") wide at speeds of up to 305mm (12") per second. Like all Xi4 printers, its rugged steel construction enables it to operate dependably in the harshest environments.

Technical specifications*

Maximum print area

Width: 168mm (6.6")
Length: 991mm (39")

Resolution

8 dots/mm (203dpi)
12 dots/mm (300dpi)

Maximum print speed

203dpi: 305mm (12") per second
300dpi: 203mm (8") per second

Physical characteristics

Width: 338.1mm (13.31")
Depth: 517.5mm (20.38")
Height: 393.7mm (15.5")
Weight: 30.5kg (67lb)

Media specifications

Label and liner width: 51mm (2") to 180mm (7.1")
Ribbon width: 51mm (2") to 170mm (6.7")

220Xi4™



The 220Xi4 quickly prints labels up to 216mm (8.5") wide at 254mm (10") per second. It is ideal for wide-label applications such as chemical drum labels, primary metal standard labels, automotive industry labels, banner-sized labels and pallet and container shipping labels. Choose the 300dpi version where high-density graphics or small fonts are required.

Technical specifications*

Maximum print area

Width: 216mm (8.5")
Length: 991mm (39")

Resolution

8 dots/mm (203dpi)
12 dots/mm (300dpi)

Maximum print speed

203dpi: 254mm (10") per second
300dpi: 152mm (6") per second

Physical characteristics

Width: 397.5mm (15.65")
Depth: 495mm (19.5")
Height: 393.7mm (15.5")
Weight: 32.7kg (72lb)

Media specifications

Label and liner width: 108mm (4.25") to 224mm (8.8")
Ribbon width: 108mm (4.25") to 220mm (8.6")

Specifications at a glance*

Standard features

- Dependable print quality – on-board diagnostics ensure optimum print quality
- Print methods: Thermal-transfer or direct-thermal
- Construction: 12-gauge steel frame
- ZebraLink
- ZebraNet 10/100 Print Server
- USB 2.0 port for faster connectivity and throughput (plug and play)
- Serial and parallel ports
- Large easy-to-read front panel with multilingual back-lit LCD display
- Transmissive and reflective media sensors
- Bi-fold media door with clear panel
- Advanced counters
- 16MB SDRAM; standard 8MB non-volatile flash memory, optional 64MB
- Improved ribbon- and media-low LCD/network alerts
- 300 discrete darkness settings for print quality
- Real-time clock
- Multi-level Element Energy Equalizer™ (E³™) for superior print quality
- ZPL II – Universal language for Zebra printers
- RFID-upgrade-ready (110Xi4 only)

Media characteristics

Labels

Max. roll size

- 203mm (8") O.D. on a 76mm (3") I.D. core

Thickness (label & liner)

- 0.076mm (0.003") to 0.305mm (0.012")

Media type

- Continuous fanfold, die-cut or black mark

For optimum print quality and printer performance, use genuine Zebra Supplies.

Ribbons

Ribbon is recommended to be at least as wide as media.

Max. roll size

- 81.3mm (3.2") O.D. on a 25.4mm (1") I.D. core

Standard lengths

- 450m (1,476') or 300m (984'); provides 3:1 and 2:1 media roll-to-ribbon ratios

Ribbon setup

- Ribbon wound ink-side out

Operating characteristics

Environment

- Operating temp. (TT): 5°C (41°F) to 40°C (104°F)
- Operating temp. (DT): 0°C (32°F) to 40°C (104°F)
- Storage/Transport environ. -40°C (40°F) to 60°C (140°F)
- Operating humidity: 20 to 85% non-condensing
- Storage humidity: 5 to 85% non-condensing

Electrical

- Universal power supply with power-factor correction 90–264VAC; 48–62Hz

Communication interface capabilities

- USB 2.0 port (480Mbits/second)
- RS-232C/422/485 multi-drop
- Hi-speed, bi-directional, IEEE 1284 parallel interface

Agency approvals

- Bi-National UL 60950 Third Edition/CSA CAN/CSA-C22.2 No. 60950-00 Third Edition; IEC 950/EN 60950: 1992 w/amendments 1 to 4 (CB Scheme); EN 55022: 1998 Class B; EN 55024: 1998; EN 61000-3-2, 3 w/amendment A12; Canadian ICES-003, Class B, FCC Class B; Argentina 92/98 Phase 3; Australia AS/NZS 3548; R.O.C. CNS 13438; BSMI; CCC

Options and accessories

- Rewind
- Label peel
- Cutter
- Media supply spindle for 75mm cores (standard on 110Xi4 – 600dpi)
- Scalable and international fonts
- Applicator interface

ZebraLink Solutions

Software

- ZebraDesigner Pro
- ZebraDesigner
- ZebraNet Bridge Enterprise
- ZebraNet Utilities v 7.0
- ZBI-Developer

Networking

- ZebraNet Wireless Plus Print Server
- ZebraNet 10/100 Print Server
- IBM® twinax/coax interface

Firmware

- ZPL II (standard)
- XML-enabled
- Web View
- Alert
- ZBI

Fonts and graphics

Fonts and character sets

- Standard fonts: 7 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed) Contains UFST® from Agfa Monotype Corporation
- Pre-loaded Unicode™-compliant scalable fonts for EMEA character sets
- Sets: IBM Code Page 850 International character set

Graphics features

- Supports user-defined fonts and graphics – including custom logos

Bar code symbologies

- Linear bar codes: Codabar, Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case C Codes, EAN-8, EAN-13, Industrial 2 of 5, Interleaved 2 of 5, ISBT-128, Logmars, MSI, Planet Code, Plessey, Postnet, Standard 2 of 5, UPC-A, UPC-E, UPC and EAN 2 or 5 digital extensions
- Two-dimensional: Codablock, Code 49, Data Matrix, GS1 DataBar (RSS), MaxiCode, MicroPDF417, PDF417, QR Code, TLC 39

Thinking about mobilising your workforce?

The use of mobile printers in a warehouse or supply-chain environment improves productivity and provides a fast return on investment.



To find out how your business could benefit from a Zebra mobile-printing solution, please visit www.bbk-gmbh.de



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www.zebra.com



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Zebra® LP 2824 Plus™ & TLP 2824 Plus™ printers



Two-inch (56mm) on-demand thermal printers for labels, receipts, tags and wristbands

Leading the way in versatile and affordable desktop printing

These space-saving, user-friendly printers bring new levels of performance to the Zebra Desktop family. The direct-thermal LP 2824 Plus or combined direct-thermal/thermal-transfer TLP 2824 Plus are perfect for patient identification, pharmacy labelling, retail product and shelf labelling or any other application where precise narrow output is required.

Superior performance at a small price

These elegant little printers from Zebra bring fast, professional labelling to your desk, small office, laboratory or anywhere you need to print small numbers of bar-code labels, receipts and tags. They are robust with a double-walled ABS casing and offer many "big printer" features at an extremely affordable price.

However, they are designed for ease of use, so even complete beginners will find them easy to set up and operate.



Key features:

- Label handling options include:
 - Label dispenser with label present sensor
 - Cutter
- Serial, USB or parallel configurations
- Ethernet network connection via a factory-installed internal ZebraNet® Print Server option
- Co-resident command language
- Unicode™
- ZBI 2.0™

Zebra offers a wide range of supplies for LP/TLP 2824 Plus printers, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads



► For more information, visit www.bbk-gmbh.de

Specifications at a glance*

Standard features

- Print methods: Direct thermal or thermal transfer
- Programming languages: EPL™ and ZPL® as standard
- Construction: Dual-wall frame
- OpenACCESS™ for easy media loading
- Auto-calibration of media
- 32-bit RISC processor
- Odometer
- Unicode
- Hardware reset button

Printer specifications

Resolution

- 8 dots/mm (203dpi)

Memory

- Standard: 4MB flash; 8MB SDRAM
- Optional: 64MB (68MB total) flash with RTC

Print width

- 56mm (2.2")

Maximum print length

- 990mm (39.0")

Maximum print speed

- 102mm (4") per second

Media sensors

- Fixed reflective and transmissive sensors

Media characteristics

Maximum label and liner length

- Maximum non-continuous: 990mm (39")

Maximum label and liner width**

- 19mm (0.75") to 60mm (2.36")

Maximum media roll size

- 127mm (5") O.D.

Media thickness

- 0.076mm (0.003") to 0.18mm (0.0071")

Media types

- Roll-fed or fanfold, die-cut or continuous direct-thermal labels with or without black mark, tag stock, continuous receipt paper, wristbands

Ribbon characteristics

Outside diameter

- 35mm (1.36")

Length

- 74m (244') when using 0.08mm ribbon thickness

Ratio

- 1:1 media roll to ribbon

Width

- 33mm (1.30") and 57mm (2.24")

Core inner diameter

- 12.7mm (0.5")

Operating characteristics

Environmental

- Operating temperature: 4.4°C to 41°C (40°F to 105°F)
- Storage temperature: -40°C to 60°C (-40°F to 140°F)
- Operating humidity: 5% to 95% non-condensing
- Storage humidity: 5% to 95% non-condensing

Electrical

- Auto-detectable (PFC-compliant) 100–240VAC, 50–60Hz

Agency approvals

- Emissions: FCC Part 15, Subpart B, VCCI, C-Tick
- Emissions and Susceptibility: (CE): EN 55022 Class B, EN 61000-3-2, EN 61000-3-0 and EN 55024, CCC
- Safety: CB Scheme IEC 60950:1991 +A1 +A2 +A3 +A4, TÜV, NRTL, IRAM, NOM, AAMI, CCC

Physical characteristics

Width

- Direct thermal 107mm (4.2")
- Thermal transfer 126mm (5.0")

Height

- Direct thermal 176mm (6.9")
- Thermal transfer 178mm (7.0")

Depth

- Direct thermal 214mm (8.4")
- Thermal transfer 235mm (9.3")

Weight

- Direct thermal 1.2kg (2.7lb)
- Thermal transfer 1.6kg (3.5lb)

ZebraLink™ Solutions

Software

- ZebraDesigner™ driver
- ZebraDesigner Pro
- ZebraDesigner
- ZebraNet Bridge Enterprise
- Zebra setup utilities
- Zebra universal driver
- ZBI-Developer™

Firmware

- EPL2™
- EPL line mode
(Direct thermal only – LP 2824 Plus printer only)

- ZPL II®
- XML-enabled printing
- ZBI 2.0
- Web View
- Alert

Communication and Interface capabilities

- RS-232 serial interface, DB-9
- USB 1.1, bi-directional
- Parallel (Centronics®), bi-directional
- ZebraNet 10/100 Print Server (optional)

Fonts/graphics/symbologies

Fonts and character sets

- 16 resident expandable ZPL II bitmap fonts
- One resident scalable ZPL font
- Five resident expandable EPL2 fonts
- Native OpenType™ font support
- Unicode-compliant for multi-language applications

Graphics features

- Supports user-defined fonts and graphics including custom logos
- ZPL II drawing commands for boxes and lines

Bar code symbologies

- Bar code ratios: 2:1 (non-rotated) and 3:1 for EPL and ZPL except where noted
- Linear bar codes: Codabar, Code 11 (ZPL), Code 39, Code 93, Code 128, EAN-8, EAN-13, EAN-14 (ZPL), German Post Code (EPL), GS1 DataBar (RSS), Industrial 2-of-5 (ZPL), Interleaved 2-of-5, ISBT-128 (ZPL), Japanese Postnet (EPL), Logmars (ZPL), MSI, Plessey, Postnet, Standard 2-of-5 (ZPL), UCC/EAN-128 (EPL), UPC-A, UPC-A and UPC-E with EAN 2 or 5 digit extensions, UPC-E, UPC and EAN 2 or 5 digit extensions (ZPL)
- Two-dimensional: Codablock (ZPL), Code 49 (ZPL), Data Matrix, (ZPL), MaxiCode, MicroPDF417, PDF417, QR Code

Options and accessories

- Label dispenser with label-present sensor
- ZebraNet 10/100 Print Server – internal or external Ethernet options for network communication and printing
- Cutter for various media types
- Font packs – Asian and other international font kits
- KDU Plus™ and KDU keyboard display units for standalone printing solutions

Thinking about mobilising your workforce?

The use of mobile printers in a warehouse or supply-chain environment improves productivity and provides a fast return on investment.



To find out how your business could benefit from a Zebra mobile-printing solution, please visit www.bbk-gmbh.de

*Specifications subject to change without notice.

** Use of the optional media adaptor kit supports narrow media such as wristbands from widths between 15mm (0.59") and 37mm (1.46"). LP 2824 Plus printer only.

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Zebra® G-Series™ printers



Making a difference to your desktop

Zebra's G-Series compact desktop printers deliver best-in-class speed and performance for print widths up to 104mm (4"). From the basic GK™ model to the feature-rich GX™ model, the G-Series printers offer a reliable, durable and flexible desktop solution for any printing application and budget.

Built with Zebra durability and reliability, the G-Series GK model provides the best value of all basic desktop thermal printers, while the premier GX model supports a variety of industries and applications with the widest range of features. Choose the space-saving direct-thermal version of either model for the smallest footprint of any 104mm (4") desktop printer, or the direct-thermal/thermal-transfer version to save users time with the easiest ribbon-loading system available.

With both EPL™ and ZPL® native on all models and a variety of connectivity options for personal, local and networked systems, the G-Series printers integrate easily and seamlessly with other Zebra printing solutions.

Zebra's G-Series printers support many applications, including:

Healthcare:

- Patient identification
- Sample and specimen identification
- Sterile services labelling
- Pharmacy prescription labelling

Retail:

- Product labelling
- Price mark-down
- Shelf-edge labelling
- Voucher and receipt printing

Travel:

- Boarding passes
- Bag tags

Hospitality, service & leisure:

- Event and exhibition ticketing
- Fast-food labelling
- Gaming and betting slips

Supply chain:

- Process, product and shipping labelling

Post & parcel:

- Electronic franking
- Address labelling

Specifications at a glance*

Standard features

- Print methods: Thermal transfer or direct thermal
- Construction: Die-cast aluminium base, frame and printhead mechanism
- Metal media cover with large clear window
- Element Energy Equalizer™ (E³®) for superior print quality
- Auto-calibration
- Real-time clock
- Auto-ranging (90–265VAC) power supply
- Colour-coded operator cues
- Multi-language control panel with back-lit 240x128 pixel display

Printer specifications

Resolution

- 8 dots per mm/203dpi; 12 dots per mm/300dpi; 24 dots per mm/600dpi (ZM400 only)

Memory

- Standard: 8MB flash, 16MB DRAM
- Optional: Factory-installed 64MB flash

Print width

- ZM400: 104mm/4.09"
- ZM600: 168mm/6.6"

Print length

- ZM400: with 203dpi: 3,988mm/157"; with 300dpi: 1,854mm/73"; with 600dpi: 991mm/39"
- ZM600: with 203dpi: 2,590mm/102"; with 300dpi: 1,143mm/45"

Print speed

- 203dpi: 254mm/10" per second
- 300dpi: 203mm/8" per second
- 600dpi: 102mm/4" per second

Media sensors

- Fixed reflective sensor
- Adjustable transmissive sensor

Media characteristics

Maximum label and liner length

- Maximum non-continuous: 991mm/39"

Maximum label and liner width

- ZM400 – 114mm/4.5"
- ZM600 – 178mm/7.0"

Maximum roll diameter

- 203mm/8.0"

Core diameter

- 76mm/3"

Media thickness

- 0.058mm/0.0023" to 0.25 mm/0.010"

Media types

- Continuous, die-cut, tags, black-mark

Ribbon characteristics

Outside diameter

- 81.3mm/3.2"

Standard length

- 300m/984' or 450m/1,476'

Ratio

- 3:1 media-roll to ribbon. Ribbon must be at least as wide as media

Width

- ZM400: 51mm/2.00" to 110mm/4.33"
- ZM600: 51mm/2.00" to 174mm/6.85"

Ribbon setup

- Ribbon wound ink-side out (ribbon wound ink-side in can be used with optional ribbon spindle)

Core internal diameter

- 25.4mm/1.0"

Operating characteristics

Environmental

- Operating temperature: 0°C to 40°C (Direct Thermal); 5°C to 40°C (Thermal Transfer)
- Storage temperature: -40°C to 60°C
- Operating humidity: 20–85% non-condensing
- Storage humidity: 5–85% non-condensing

Electrical

- Universal auto-ranging (PFC-compliant) power supply 90–265VAC; 48–62Hz

Agency Approvals

- IEC60950-1, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 55022 Class B
- Markings: cTUVus, CE, FCC-B, ICES-003, VCCI, C-Tick, NOM, CCC, GOST-R, BSMI, S-Mark (Arg), SABS, MIC, ZIK

Physical characteristics

Width

- ZM400: 278mm/10.9"
- ZM600: 341mm/13.4"

Height

- ZM400: 338mm/13.3"
- ZM600: 338mm/13.3"

Depth

- ZM400: 475mm/18.7"
- ZM600: 475mm/18.7"

Weight

- ZM400: 15kg/32.4lb
- ZM600: 16kg/34.7lb

Shipping weight

- ZM600: 22kg/49lb
- ZM600: 24.5kg/54lb

ZebraLink™ solutions

Software

- ZebraDesigner™ Pro
- ZebraDesigner for XML
- ZebraNet™ Bridge Enterprise

- ZebraNet Utilities v 7.0
- Zebra Universal Driver
- Additional scalable and bitmapped fonts available

Networking/Connectivity

- ZebraNet Internal Wireless Plus Print Server
- ZebraNet 10/100 Print Server
- RS-232-C serial port
- High-speed IEEE 1284 bi-directional parallel interface
- USB 2.0

Firmware

- ZPL II®
- EPL™
- XML-enabled printing
- Web View
- Alert
- ZBI 2.0
- ZBI Developer

Fonts/graphics/symbologies

Fonts and character sets

- 7 bitmapped, 1 smooth-scalable
- Native open type font support
- Global printing – Unicode™-compliant for fast multi-language on-demand thermal printing right out of the box
- Contains UFST® from Monotype Imaging Inc.

Graphic features

- Supports user-defined fonts and graphics, including custom logos
- ZPL II drawing commands for boxes and lines

Bar code symbologies

- Linear Bar Codes: Codabar, Code 11, Code 16k, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case C Codes, EAN-8, EAN-13, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Planet Code, Plessey, Postnet, Standard 2-of-5, UPC-A, UPC-E, UPC and EAN 2 or 5 digit extensions
- Two-Dimensional: Aztec, Codablock, Code 49, Data Matrix, GS1 DataBar (RSS), MaxiCode, MicroPDF417, PDF417, QR Code, TLC 39

Options and accessories

- Cutter with catch tray
- Peel – a front-mount, passive-peel option with no liner take-up
- Liner take-up (works with peel option) – full-roll liner take-up spindle (fits standard base, ZM400 only)
- Rewind – internally rewinds full label roll on 3 (76mm) core (comes with taller, non-standard printer base)
- RS-422/RS-485 serial port adaptor
- Optional ribbon spindle to support ribbon wound ink-side in (ZM400 only)

Thinking about mobilising your workforce?

The use of mobile printers in a warehouse or supply-chain environment improves productivity and provides a fast return on investment.

▶ For more information, visit www.bbk-gmbh.de

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12539L Rev.7 (06/10)

Zebra® ZT400™ Series



SEE MORE. DO MORE.



Keep your critical operations running efficiently with Zebra's durable ZT400 Series printers, designed for years of performance in a wide array of applications.

The ZT400 Series builds on the field-proven reliability of the Z Series™ with advancements in print speed, print quality and connectivity options. Designed for ease of use, the ZT400 Series printers offer an intuitive icon-based LCD graphical user interface and easy-loaded supplies. And, they also include standard USB, Serial, Ethernet and Bluetooth® capabilities. Expanded RFID capacities deliver greater tracking abilities, deeper visibility and enterprise insights.

The ZT400 Series is offered in both 104mm (4") and 168mm (6") models and comes standard with an extensive set of advanced features that ensure your printer investment will always meet your needs, now and in the future. Constructed using an all-metal frame and bi-fold door, this printer is designed to fit well in space-constrained environments.

Featuring Zebra's Link-OS® environment – an innovative operating system combining a powerful Multiplatform Software Development Kit (SDK) and software applications – ZT400 Series printers are easy to integrate, manage and maintain from any location around the globe.

Ideal for These Applications

Manufacturing: work-in-process, product ID/serial numbers, packaging labels, receiving/put-away labelling

Transportation & Logistics: order picking/packing, shipping/receiving, cross-docking, compliance labelling

Retail: distribution centers, back-of-store operations

Healthcare: laboratory labels, blood-bank labels, asset tracking, pharmacy labelling

Link-OS®

ADVANCED INDUSTRIAL PRINTING. RUGGED DURABILITY. LOADED WITH FEATURES.

Designed to grow with your evolving business needs, the ZT400 features increased processing capabilities and an open operating architecture providing flexibility to support your ever-growing and changing application requirements.

Application Flexibility

- Expand your printing readiness through an exceptional range of media capabilities and media delivery options.
- Customise your printer to match your current and future business needs with end-user-installable media handling options.
- Standard Serial, USB, Ethernet and Bluetooth features – as well as two open media slots – allow you to utilise optional connectivity options.
- Expanded RFID capabilities are easy to install and simple to use.
- Ensure quality output for small-label applications with high-resolution printing capabilities.

Effortless to Integrate

- USB host port enables simple printer configuration by easily transferring data from a USB flash drive via mirroring and expanded mapped-drive memory capabilities.
- Virtual Devices apps enable Link-OS printers to support well-known legacy and competitor printer languages – in addition to ZPL[®] and EPL[™] – for a future-proofed investment.

Easy to Operate

- Dynamic QR codes provide on-demand, web-based support to resolve printer errors quickly.
- Print Touch-enabled Link-OS printers offer web page launching features using Near Field Communication (NFC), making it easy to access Zebra's extensive knowledge base of how-to videos and product support.
- Lighted media and ribbon paths make it easy to see inside the printer, even in poorly lit environments.

Simple to Manage

- Zebra's Link-OS environment delivers enhanced capabilities to monitor, manage and maintain your printer from any location.
- Cloud Connect allows Link-OS printers to securely and directly interact with the Cloud for printing and device management.
- Profile Manager enables you to edit and manage one printer, batches of printers or all Link-OS printers across your network anywhere in the world.



COMPARING THE ZT410™ AND ZT420™

The ZT400 Series offers two models: the ZT410 and the ZT420. Compare the features to see which printer best suits your needs.

	ZT410	ZT420
		
Maximum print width	104mm	168mm
Maximum ribbon length	450 m	450 m
Maximum print speed	356mm/s	305mm/s
User Interface	LCD	LCD
Print resolution	203, 300, 600 dpi	203 and 300 dpi
Printer control language	ZPL, EPL, others	ZPL, EPL, others

ZebraCare™ Services

Increase printer uptime and reduce lost productivity and unbudgeted repair costs by selecting a ZebraCare service agreement. A cost-effective means of planning and budgeting for your annual maintenance expenditures, your agreement ensures that trained Zebra technicians will bring your printer back to factory specifications. Zebra offers a variety of plans to fit your budget and business needs.

Genuine Zebra™ Supplies

Zebra provides high-quality supplies solutions for virtually any application:

- The largest selection of pre-tested, labels, tags and ribbons for your ZT400 printer.
- Ability to create custom labels in any size with pre-printed text, graphics and logos.
- Supplies extensively tested to ensure print quality, chemical resistance and adhesive strength.
- ISO 9001:2008 certified



SPECIFICATIONS AT A GLANCE*

Printer Name

ZT410
ZT420

Standard Features

- Print Methods: Thermal transfer and direct thermal printing
- Construction: Metal frame and bi-fold metal media cover with enlarged clear viewing window
- Side-loading supplies path for simplified media and ribbon loading
- Element Energy Equalizer™ (E³) for superior print quality
- Communications: USB 2.0, high-speed, RS-232 Serial, 10/100 Ethernet, Bluetooth 2.1, USB Host
- Back-lit, multiline graphic LCD display with intuitive menu and easy-to-use keypad for quick operation
- Bi-coloured status LEDs for quick printer status
- ENERGY STAR® qualified

Printer Specifications

Resolution

- 203 dpi/8 dots per mm
- 300 dpi/12 dots per mm (optional)
- 600 dpi/24 dots per mm (optional for ZT410 only)

Memory

- 256 MB RAM memory (4 MB user available)
- 512 MB Flash memory (64 MB user available)

Maximum Print Width

104mm/4.09" (ZT410)
168mm/6.6" (ZT420)

Maximum Print Speed

356mm per second/14 ips (ZT410)
305mm per second/12 ips/ (ZT420)

Media Sensors

Dual media sensors: transmissive and reflective

Media Characteristics

Media width (label and liner):

- ZT410
 - 25.4mm/1.00" to 114mm/4.5" tear/cutter
 - 25.4mm/1.00" to 108mm/4.25" peel/rewind
- ZT420
 - 51mm/2.00" to 178mm/7.0" tear/cutter
 - 51mm/2.00" to 171mm/6.75" peel/rewind

Maximum non-continuous label length:
991mm/39"

Print Length

- 203 dpi: 3988mm/157"
- 300 dpi: 1854mm/73"
- 600 dpi: 991mm/39"

Maximum Media Roll Size

203mm/8.0" O.D. on a 76mm/3" I.D. core

Media Thickness

0.058mm/0.0023" to 0.25mm/0.010"

Media Types

Continuous, die-cut, notch, black-mark

Ribbon Characteristics

(Thermal-transfer option only)

Outside Diameter

81.3mm/3.2" O.D. on a 25.4mm/1.0" core

Standard Length

450 m/1476'

Width

51mm/2.00" to 110mm/4.33"/

Ribbon Setup

Ribbon wound ink-side out; ribbon wound ink-side in can be used with the optional ribbon spindle

Operating Characteristics

Environmental

- Operating Environment:
 - Thermal transfer: 5° to 40°C /40° to 104°F
 - Thermal direct: 0° to 40°C /32° to 104°F
 - 20% to 85% non-condensing R.H.
- Storage/Transportation Environment:
 - -40° to 60°C/-40° to 140°F
 - 5% to 85% non-condensing R.H.

Electrical

- Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz, rated at 100 Watts
- ENERGY STAR qualified

Agency Approvals

- IEC 60950, EN 55022 Class B, EN55024, EN 61000-3-2, EN 61000-3-3
- cTUVus, CE Marking, FCC-B, ICES-003, VCCI, C-Tick, NOM, S-Mark (Arg), CCC, CU, BSMI, KCC, SABS, IN-Metro

Physical Characteristics

	ZT410 closed	ZT420 closed
Width:	269mm/10.6"	336.55mm/13.25"
Height:	324mm/12.75"	324mm/12.75"
Depth:	495mm/19.50"	495mm/19.50"
Weight:	16.33 kg/36 lb.	18.14 kg/40 lb.

Options and Accessories

Communication

- Parallel (Bi-directional interface)
- Wireless: ZebraNet® Printer Server – supports 802.11 a/b/g/n networks via an internally integrated option that enables the use of Webview and Alert features

Media Handling

- Rewind: internally rewinds a full roll of printed labels on 76mm (3") core, or peels and rewinds liner (Factory installed only)
- Peel: Front mount, passive peel option
- Peel: Liner take-up option – additional full roll liner take-up spindle accommodates standard printer base
- Cutter: Front mount guillotine cutter and catch tray
- 25.4mm (1") I.D. Core media supply hanger
- Ink-side in ribbon supply spindle

RFID

- Supports tags compatible with UHF EPC Gen 2 V1.2/ISO 18000-6C
- Integrated RFID system is user-upgradable in the field and available on both 104mm and 168mm models
- Adaptive Encoding Technology automatically selects optimum encode settings

Keyboard Display Unit

Supports KDU Plus™ and ZKDU: Enter variable data and retrieve stored forms for standalone applications

Link-OS Solutions

Software Tools

- Document Design: Quickly design a customized print solution using your business data and Zebra's intuitive, plug-and-print design tools.
- Device Integration: Zebra offers apps and products designed to help you integrate Zebra devices into your existing systems.
- Device Management: Manage your print operations locally and globally with Zebra's suite of device management tools.
- Developer Tools: Provides you the tools you need to create your own apps, including documentation, source code, programming languages, templates and more.

Firmware

- Resident ZPL, ZPL II® and EPL programming languages, selectable through software or front panel.
- XML-enabled Printing — allows XML communications for barcode label printing.

Barcode Symbolologies

- Linear Barcodes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2- or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code
- 2-Dimensional Barcodes: Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, TLC 39, MicroPDF, RSS-14 (and composite), Aztec

Fonts and Graphics

- 16 resident expandable ZPL II bitmap and two resident scalable ZPL fonts
- Asian and other international scalable and smooth bitmapped fonts
- Unicode: For multi-language printing
- Downloadable objects include graphics, scalable and bitmap fonts, label templates and formats
- IBM Code Page 850 international character sets are available in the fonts A, B, C, D, E, F, G and O through software control
- Code Page 1250, 1252, 1253, 1254, 1255 Support with font O



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Labelprinter swiftcolor SCL-4000 D

Digital inkjet color printer with "single-pass technology"



The Digital Inkjet Color Printer **SCL-4000D** of swiftcolor with "single-pass technology" is used in many different applications:

Shipping case marks, address stickers, baggage tags, barcodes, cosmetic, health care product, prescription medicine packaging, gourmet food and bottle labels and MORE!

Features:

- High speed 7.9ips (200mm / sec)
- High quality 600 dpi and 1200 dpi
- Desktop, compact and lightweight
- 4Multi-color printing (4 color/BK, C, M, Y)
- Single-pass printhead architecture

Technical data

Label printer		SCL-4000D
Print Technology		Inkjet ("single-pass technology")
Type of Ink		Dye based ink
Print Color		4 color (BK, C, M, Y)
Weight		52.91 lbs (24kg) excluding head & ink cartridge
Dimensions (w x d x h)		15.19 x 22.44 x 15.51 inches (386 x 570 x 394 mm)
Print Resolution		max. 1200 x 1200dpi
	Number of Print Heads	4
Print Speed		1.96 - 7.87 inches (50 - 200 mm)/sec
Print Area	Max Width	4.17 inches or less (105.9 mm or less)
	Length	0.11 - 15.62 inches (3.0 - 397.0 mm)
Margins		borderless printing generally possible!
	Top/Bottom	0.05 inches (1.5 mm) standard
	Left Right	0.010 inch (2.7 mm) including liner
Material	Type of Media	Exclusive roll paper (label, tag) Exclusive fanfold paper
	Type of Paper	Label/gap, Label/mark, Tag/mark, Continuous paper (without TOF)
Media Size	Width	1-4.72 inches (25.4-120 mm)
	Length	0.23 - 15.74 inch (6.0 - 400 mm)
	Thickness	145 - 255 µm (label/tag)
Media Roll Size	Outer Diameter	ø7.87 inch (200 mm) and less
	Core diameter	ø3.00 ± 0.03 inches (76.2 ± 1.0 mm)
Interface		External supply possible
	Data Transmission	USB2.0 Hi-speed function, Giga Bit Ethernet
	Extension	RS232C 1, RS232C 2, interface for option
Operating system		WinXP 32bit, Vista 32bit, Win7 32bit (64bit available soon)
Power Supply		AC 100-240V, 50-60Hz
Power Consumption	Maximum	250W (TBD) (printer only)
Operating Environment	Temperature/Humidity	59°F (15°C) 10% - 86°F (30°C) 80%
Ink Cartridges	Color	Cyan/Magenta/Yellow/Black (CMYK)
	Capacity	240ml for each color
Option		Auto cutter

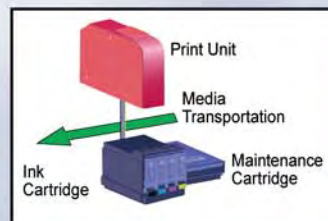
* Specifications subject to change without notice.



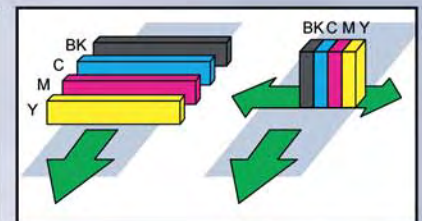
Simple ink cartridge replacement



Easy label roll replacement



Print module available for other systems, production lines and kiosks



Single-pass printing Serial printing Media (SCL-4000D)

Labelprinter

Epson ColorWorks C3500

Serial Inkjet Printer



With the **Epson ColorWorks C3500**, you can easily customise and print your own colour labels. Whether it's printing packaging labels with colourful logos and pictures, or tickets and ID cards with important barcodes and product information, this printer ensures you can print it all from one machine.

This all round colour label printer also helps you conform to GHS international chemical labelling guidelines, as its pigment ink combination with the PE Matte Label media are ideal for use in harsh environments, providing accurate and smudge-proof printouts, that are resistant to water and most chemicals.

Technical data

Label printer		ColorWorks C3500
Print Technology		Serial Inkjet Printer
Type of Ink		Epson DURABrite™ Ultra
Print Color		Black, Cyan, Yellow, Magenta
Weight		12 kg
Dimensions (w x d x h)		310 x 283 x 261 mm
Print Resolution		max. 720 x 360 dpi
Print Speed		56 – 103 mm/sec.
Print Area	Max. Width	104 mm
	Length	Endless
Material	Type of Paper/printing medium	Continuous label, Continuous paper, PDie-cut label, Black mark paper, Black mark label
Media Size	Min.	30 mm
	Max.	112 mm
Media Roll Size	Outer Diameter	max. 101,6 mm
Interface		Ethernet interface (100 Base-TX/10 Base-T) USB 2.0 Typ A
Power consumption	Standby	Appx. 3 W
	Printing	Appx. 30 W
Reliability	MCBF	9.800.000 passes
	MTBF	88.000 Hours
Supply voltage		AC 100 ~ 240 V, 50 ~ 60 Hz
Power Supply		External
Temperature/ humidity	Printing	10 - 35°C (20 - 80% RH)
	Storage	-20 - 60°C (5 - 85% RH)
Ink Cartridges	Color	cyan/magenta/yellow/black (CMYK)
	Nozzle Configuration	360 Nozzles per colour
Option		Autocutter

PRODUCT FEATURES:

- Long-lasting prints: Durable pigment ink
- Fast print speeds: Label printing up to 103 mm/sec.
- Matte, glossy and more: Print on a variety of media
- Easy operation: LCD screen display for ink and printer status
- Cost Savings: Individual ink cartridges

Epson ColorWorks C7500

Desktop Label color printer



Print high-quality labels in-house and on-demand. Ensuring consistent results every time, the **ColorWorks C7500** features Epson's new PrecisionCore MicroTFP printhead with unique Nozzle Verification Technology (NVT) and dot substitution to ensure consistent prints and prevent dead pixels.

Quickly and easily produce a range of high-quality labels for food and beverage products, packaging and boxes, EU energy labels, GHS labels and more. With print speeds of up to 300mm/sec, you can now print labels in full colour at the same speed as some thermal monochrome printers, with no compromise on print quality.

Printing labels on-demand eliminates the cost associated with pre-printing labels, such as wastage and having to store a large label inventory. High-capacity, individual ink cartridges mean only the colour used needs to be replaced, helping reduce the cost per print, while the printhead is designed to last for the lifetime of the printer¹, so you should never need to buy a replacement.

Technical data

Label printer		ColorWorks C7500
Printing method		PrecisionCore MicroTFP line printer
Nozzle configuration		600 nozzles per colour
Colours		Black, Cyan, Yellow, Magenta (C, M, Y, K)
Ink technology		Epson DURABrite™ Ultra
Category		Desktop Label color printer
Printing speed		Max. 300mm/sec at 600 × 1200dpi (printing width 108mm)
Resolution		Max. 600x1200 dpi
Printing width		Max. 108 mm
Media format		Roll (8" external diameter), fanfold media
Media width		Min. 50 mm, Max 112 mm
Media type		Die-cut label, black mark paper, black mark label
Interfaces		Ethernet interface (100 Base-TX / 10 Base-T), USB 2.0 Type A
Power supply		Internal
Supply voltage		AC 100 ~ 240 V, 50 ~ 60 Hz
Temperature/ humidity	Printing Storage	-20 - 60° C (5 - 85% RH) 5 - 35° C (20 - 80% RH)
Power consumption	Standby Printing	Appx. 41 W Appx. 86 W
Product dimensions		392 x 598 x 395 mm (width × depth × height)
Product weight		37 kg
Option		Autocutter

PRODUKT FEATURES:

- Reliable performance — rugged design means minimal maintenance and a low overall cost of ownership; ideal for busy, on-demand environments
- Powerful productivity — Just in Time Color printing for high-volume labeling applications
- High-speed, on-demand, color printing — speed through multiple full-color labels with variable data up to 11.8" per second
- Durable labels — BS-5609 certification means labels won't smudge, smear or fade
- Low cost of labeling — up to 50 percent lower printing cost than with laser and thermal transfer printers for high-durability color labels
- Seamless integration — built-in ESC/Label language means you can use the printer with your existing workflow, and even add color with simple programming extensions
- Astounding image quality — powered by PrecisionCore™ inkjet technology from Epson; delivers precise barcodes and ultra sharp text
- Highly efficient — high-yield ink cartridges mean fewer user interventions and less waste than most thermal transfer printers; easy to change, so there's less downtime